els spelsberg

Electrical Installation Systems 2010 / 2011

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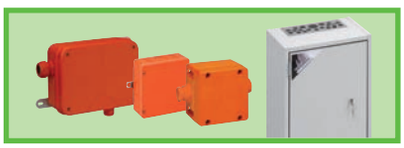

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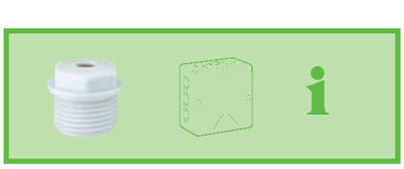

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Spelsberg
Everything is just fine

We can say that with complete confidence, even after the latest global financial and economical crisis.

Dear customers and friends,

When times get tough, that's when you realise what really matters.

We have never believed in growth at any price; we have always preferred common-sense management and responsible business practices. Such attitudes may seem quaint when the economy is booming: Just think how much more you could earn if you invested less in research or in training your employees, or chose to buy cheaper materials or outsource your production to the Far East.

We avoided all that and stayed the course with our preference for quality and innovation while expanding in Germany and investing in growth areas. We were among the first in our sector to offer innovative solutions for photovoltaics and maintaining electrical function, a technical advantage that is now paying off. We offer modern, high-quality products at a fair price, and we see this as our strength and competitive advantage.

Check out our comprehensive selection: Here is our new catalog with nearly 2000 products for every conceivable application.

More and more, fully equipped and tested systems are replacing individual components. This is where many suppliers of cheaper products meet their match, because manufacturing such products calls for years of experience, technical expertise and sophisticated infrastructure such as high-performance test labs - all a matter of course at Spelsberg.

See for yourself what we have to offer: established products as well as innovations. Rest assured, you can continue to rely on our products and solutions. Quality Made in Germany - you can depend on it.

Yours truly,
The Spelsberg management team

Till Fastabend
Managing director

Ernst Peter Benner
Managing director

Holger Spelsberg
Managing director

Ready for the future...

Electrical installation systems

- Junction boxes
- Maintaining electrical function
- Concrete installation systems
- Meter housings
- Small-scale distributors
- Fuse boxes
- Empty enclosures for industry
- ISO distributors up to 1.250 A

- Well over 500 standard enclosures made of plastic and aluminium
- Enclosures for terminal blocks
- Various cover heights
- Extensive range of accessories

For over 100 years Spelsberg has been developing and manufacturing solutions for electrical installation systems. For a number of years, in addition to conventional products for electrical contractors, we have been engaged in developing and manufacturing photovoltaic systems and specialised enclosure systems.

Enclosure systems

- **Drilled or milled openings**
- **Engraving, labelling**
- **Prototypes**
- **Series production**

Today, our three business areas are all mainstays of the company and their synergies constitute the basis for our success. Our new business areas benefit in particular from our decades of experience and from the powerful infrastructure available at our headquarters in Schalksmühle.

Photovoltaic systems

- **Module junction boxes**
- **Generator isolation housings**
- **Enclosures for terminal blocks**
- **Junction boxes**
- **Meter housings**
- **HRC fuse boxes**
- **HRC fuse boxes with fuse switch disconnector**
- **Busbar enclosures**

Here, short paths guarantee a creative and communicative atmosphere and a wealth of innovative vigour. The result is a broad bandwidth of innovative products and systems with an unbeatable price-performance ratio – reliable branded quality, developed and manufactured in Germany.

If you are looking for verified safety and branded quality then Spelsberg is the right partner for you. We are a company that has grown and developed over generations - a solid, medium-sized company with a highly committed 500-strong workforce who have created an unparalleled range of products for you. Whether photovoltaics, conventional electrical installation systems or individually developed enclosure systems for special applications: at Spelsberg, innovative vigour and customer focus are not merely clichés, they have been our guiding principles for decades. At present we are represented in 50 countries, but we have always remained a family business with responsibility to our workforce and to our industrial base in Germany. We want to grow, but slowly and safely, together with our customers and not "at any price". All our product areas benefit from the collected expertise of our company's more than 100-year history, a period that included many economic highs and lows. The fact that we are still around and more successful than ever shows that we are on the right path!

- Branded quality, developed and manufactured in Germany
- Worldwide sales network
- Individual solutions for special requirements
- Over 500 highly qualified and committed employees
- Fast and flexible handling of special requests
- Comprehensive service and technical support

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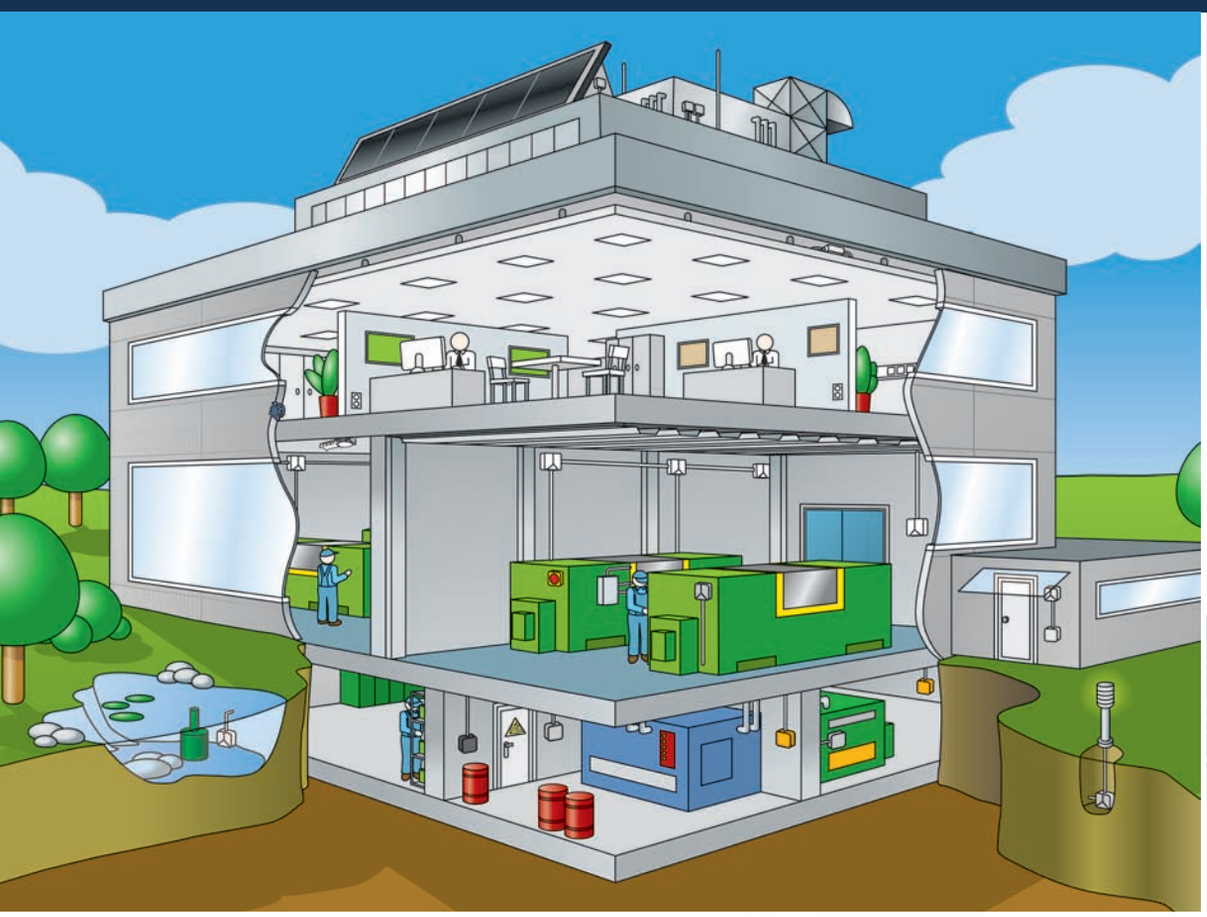
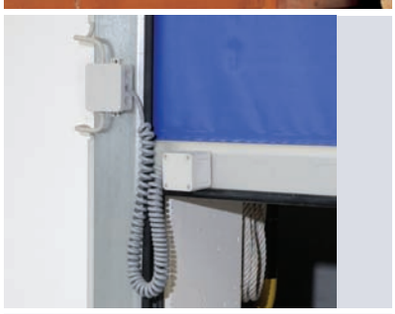
Junction Boxes

Halogen-free solutions for every application





- **The S-Box offers optimal protection against damage and vandalism**
- **WKE Fire protection boxes: a complete system with functional maintenance of the electrical material**
- **The classic for the moistureproof installation from Spelsberg:**

  Red Range now in colour. Safety for practical use!
- **Abox GT IP 68-designed for extreme applications**

iQ - **I**ndustrial **Q**uality
All products of series that are specially designed for industrial applications and end in ***"-I"*** can be identified by the blue background.

Junction Boxes
Content

	Protection	max. nominal cross section	Types	Page
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	IP55	**2.5 mm²**	Mini 25, Sd 7, i 12, 2K-12, i 16	13-17
	IP65	**6 mm²**	PV 48	18-19
	IP65	**70 mm²**	Abox 025 to Abox 700	20-35
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	IP65	**16 mm²**	Abox *SL* 2,5² to Abox *SL* 16²	36-40
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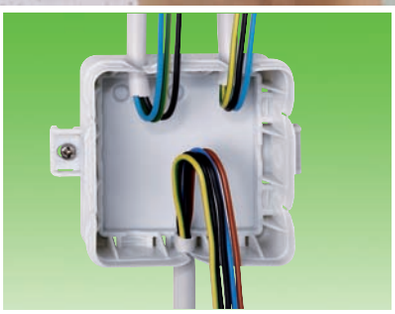
Junction Boxes
Q 4, Q 12, AP 7

IP20 IP30 | 2,5² | IK07 | 400V AC | halogen-free | VDE



- An innovation for suspended ceilings and double floors
- Terminals outside the box possible

▲ Quick installation due to cable entry from the top

▲▲ Pre-wired switching can be entered later

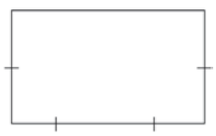
- Expansion of electrical systems in accordance with VDE

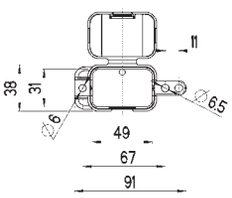
▲ Strain relief for pendant lights

▲▲ Protection against accidental contact

▲▲▲ Enclosure height only 23 mm

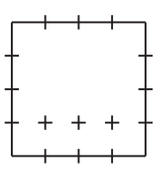
Q 4
56 x 40 x 23 mm

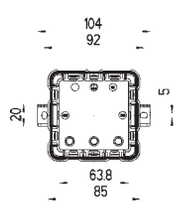




Description	Order No.	Packing Qty
Junction box acc. DIN EN 60598 (VDE 0711), U_i=400V, 4 entries , with strain relief acc. VDE 0606, 2 of which are accessible from the top, strain relief clamp for pendulum lights, with external fixing positions		
IP20 · 2,5² · IK07 · 400V AC · halogen-free		
Q 4-L grey, without terminals	334 904 01	150/25

Q 12
85 x 85 x 37 mm

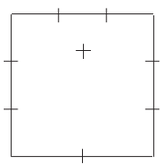


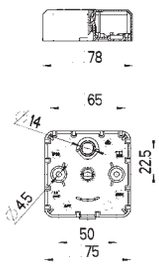


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 12 entries, with strain relief acc. VDE 0606, 7 of which are accessible from the top, 3 floor entries, with external fixing positions		
IP20 · 2,5² · IK07 · 400V AC · halogen-free		
Q 12-L grey, without terminals, for VDE approved single terminals	334 912 01	60/10
Q 12-2,5² grey, with 5 interlockable screw terminals 2.5 mm²	334 412 01	60/10
Q 12 SB-L red, without terminals, for VDE approved single terminals, for identifying circuits for safety lighting	334 712 01	60/10

AP 7

78 x 78 x 27 mm





Description	Order No.	Packing Qty
Junction box acc. VDE 0606, Surface mounting, U_i=400V, 7 entries , 1 bottom entry, central quick lock lid		

IP30 | 2,5² | IK07 | 400V AC | halogen-free

AP 7 - L white, without terminals, for VDE approved single terminals	315 607 01	50/1
AP 7 - 2,5² white, with 5 interlockable screw terminals 2.5 mm²	315 107 01	50/1

Junction Boxes
Mini 25, Sd 7, i 12, 2K-12, i 16

IP55 | 2,5² | IK07 | 400V AC | halogen-free | D VE

▲ **Pre-stamped inlets can be opened using a knife**

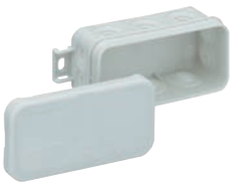
▲ **Optimised opening and closing mechanism**

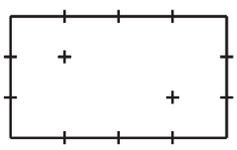
▲ **Patented external attachment with labelling field**

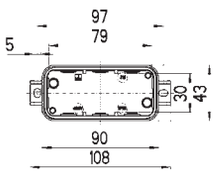
▲ **Approved for mounting on wood or other combustible materials**

Mini 25

89 x 43 x 37 mm



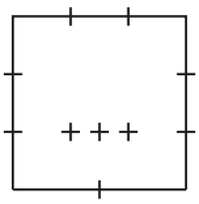


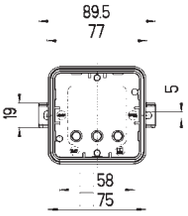


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 10 entries, 2 floor entries, suitable for confined installation environments such as suspended ceilings and cable ducts, complete with perforation tool and sealing plugs, with external fixing positions		
IP55 · 2,5² · IK07 · 400V AC · halogen-free		
Mini 25-L grey, without terminals, for VDE approved single terminals	310 908 01	40/1
Mini 25-2,5² grey, with 3 interlockable screw terminals 2.5 mm²	310 408 01	40/1

Sd 7

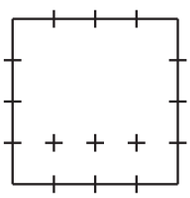
75 x 75 x 37 mm

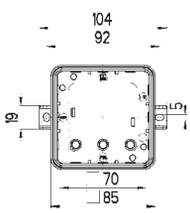




Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 7 entries , 3 floor entries, complete with perforation tool and sealing plugs, with external fixing positions		
IP55 · 2,5² · IK07 · 400V AC · halogen-free		
Sd 7-L grey, without terminals, for VDE approved single terminals	332 907 01	60/10
Sd 7-2,5² grey, with 5 interlockable screw terminals 2.5 mm²	332 407 01	60/10
Sd 7 SB-L red, without terminals, for VDE approved single terminals, for identifying circuits for safety lighting	332 707 01	60/10

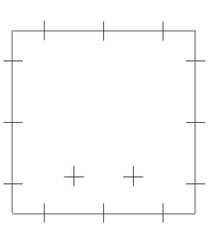
i 12
85 x 85 x 37 mm

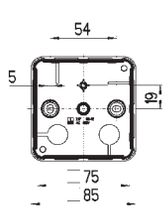




Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 12 entries, 3 floor entries, complete with perforation tool and sealing plugs, with external fixing positions		
IP55 · 2,5² · IK07 · 400V AC · halogen-free		
i 12-L grey, without terminals, for VDE approved single terminals	332 912 01	60/10
i 12-2,5² grey, with 5 interlockable screw terminals 2.5 mm²	332 412 01	60/10
i 12-L/w white, without terminals, for VDE approved single terminals	332 612 01	60/10
i 12 SB-L red, without terminals, for VDE approved single terminals, for identifying circuits for safety lighting	332 712 01	60/10
i 12-L/gr green, without terminals, for VDE approved single terminals, for identifying auxiliary power supply electrical circuits	332 512 01	60/10
i 12 -L/sw black, without terminals, for VDE approved single terminals	332 212 01	60/10

2K-12
85 x 85 x 37 mm

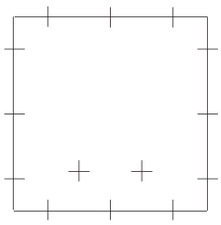


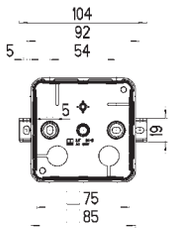


Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 12 entries, 2 floor entries, with self-sealing, soft inlet membranes, Tools not required for opening the cable entry, seal range 2 - 14 mm, with internal fixing positions		
IP55 · 2,5² · IK07 · 400V AC · halogen-free		
2K-12-L grey, without terminals, for VDE approved single terminals	344 912 01	60/10
2K-12-2,5² grey, with screw terminals 5-poles - 2.5 mm²	344 412 01	60/10
2K-12-L/w white, without terminals, for VDE approved single terminals	344 612 01	60/10
2K-12-2,5²/w white, with screw terminal 5-pole - 2.5 mm²	344 112 01	60/10

2K-12 AB

85 x 85 x 37 mm

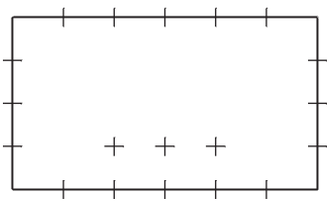


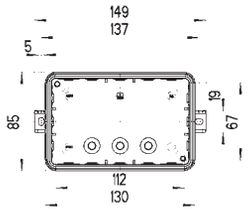


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, with external brackets, 12 entries, 2 floor entries, with self-sealing, soft inlet membranes, tools not required for opening the cable entry, seal range 2 - 14 mm, with external fixing positions		
IP55 · 2,5² · IK07 · 400V AC · halogen-free		
2K-12 AB-L grey, without terminals, for VDE approved single terminals	345 912 01	60/10
2K-12 AB-2,5² grey, with screw terminals 5-poles - 2.5 mm²	345 412 01	60/10
2K-12 AB-L/w white, without terminals, for VDE approved single terminals	345 612 01	60/10
2K-12 AB-2,5²/w white, with screw terminal 5-pole - 2.5 mm²	345 112 01	60/10

i 16

130 x 85 x 37 mm





Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, with external brackets, 16 entries , 3 floor entries, complete with perforation tool and sealing plugs		
IP55 · 2,5² · IK07 · 400V AC · halogen-free		
i 16-L grey, without terminals, for VDE approved single terminals	333 916 01	40/5
i 16-2,5² grey, with screw terminals 5-poles - 2.5 mm²	333 416 01	40/5

Cable clamp ZEL 2K-12

Description		Order No.	Packing Qty
Strain relief, with clamp, for assembly in 2K-12 junction boxes, strain relief possible for up to 2 entries, strain relief can be split without tools, 2 strain relief clamps are required for T-wiring			
ZEL 2K-12	grey	344 001 01	1/1

UP 6

32 height mm, Ø 80 mm

IP54

Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, with self-sealing inlet membranes, with separate flush-fitting lid

	Order No.	Packing Qty
UP 6-L grey, without terminals, for VDE approved single terminals	306 906 01	50/1
UP 6-2,5² grey, with screw terminals 5-poles - 2.5 mm²	306 406 01	50/1

Cable connecting sleeve

IP54

Cable connecting sleeve acc. VDE 0606, U_i=400 V, with inserted terminal block, for stationary laying with strain relief

	Order No.	Packing Qty
KVM 025-2,5² grey, 5 x 2,5 mm²	305 425 01	10/1
KVM 060-6² grey, 5 x 6 mm²	305 460 01	10/1

VST RR

Sealing plugs, for subsequent closing of previously opened entries on junction boxes in Red Range

		Order No.	Packing Qty
VST RR	grey	300 407 01	1000/1

Adapter for mini-channel

IP30

Adapter for mini-channel, for connecting mini-channels, (width 17-22mm / height 16-20mm) with connection box AP 7

		Order No.	Packing Qty
MKA 30	white	233 430 01	600/100
MKA 54	white	233 454 01	300/50

Junction Box
PV 48

IP65 | 6² | IK07 | 1000V DC | 15 A | Industrial quality

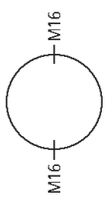
- Easy-to-extend cables to save time
- Greatest flexibility of any PV installation

- Proven connection technology for maximum safety
- Unrestricted connections possible up to 6 mm²

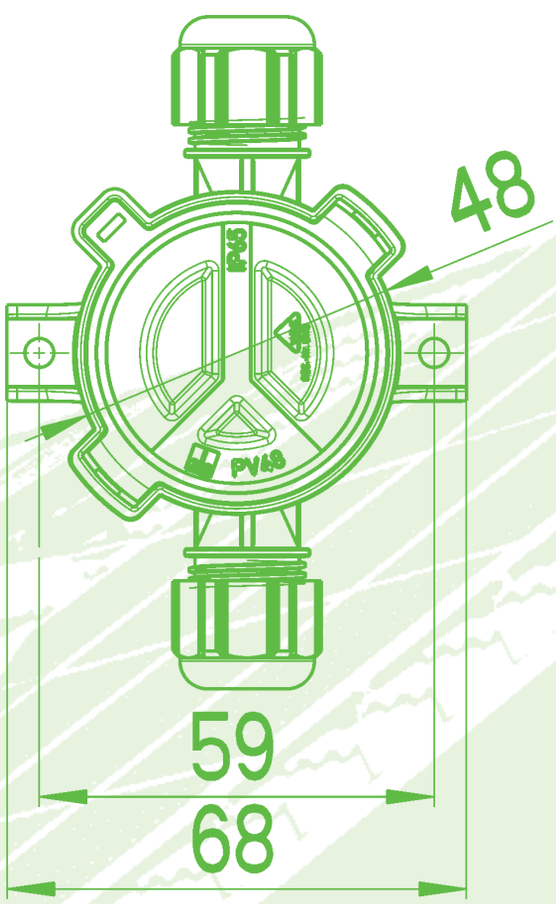
- Safe investment since no special tools are needed => no crimping, no shrinking

- Temperature range -40°C to +85°C
- Standard-compliant installation

PV 48
Ø 48 mm



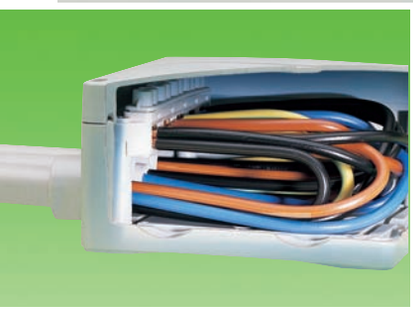
Description	Order No.	Packing Qty
PV junction box, - **I**ndustrial **Q**uality - according to DIN VDE 0126-5, max. cable cross-section 6 mm², with cable glands, M16, included, seal range 4 - 7 mm		
IP65 · 6² · IK07 · 1000V DC · 15 A · halogen-free		
PV 48 black, 1-pole - 6 mm², (2 x 6²), with spring cage terminals	497 402 01	100/5

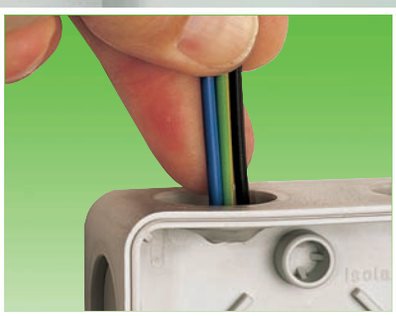


Junction Boxes Abox / Abox-*i* 025² to 2400²

IP65 | 70² | IK07 | 690V AC | halogen-free

IP65 | 240² | IK08 | 690V AC | halogen-free | Lloyd's Register | Industrial quality





- Shockproof
- Large amount of room for connection
- Easy testing facility
- High-position terminals enable rapid and clear wiring (starting with Abox 060)

▲ Quick installation due to pressure-tight membrane insertions (at Abox 025 and 040)

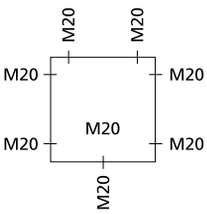
▲ Impact and breakage resistant (e.g. in sports halls)

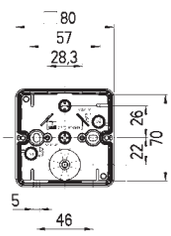
▲ With red cover for identification of circuits for safety lighting

▲▲ Application also possible under extreme conditions

Abox 025

80 x 80 x 52 mm

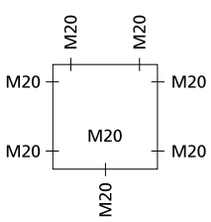


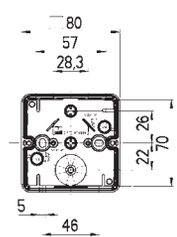


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm		
IP65 · 2,5² · IK07 · 690V AC · halogen-free		
Abox 025-L grey, without terminals	802 907 01	60/3
Abox 025-2,5² grey, with screw terminals, 5-poles - 2.5 mm² (4 x 1.5² / 4 x 2.5²)	802 407 01	60/3
Abox 025-L/w white, without terminals	802 607 01	60/3
Abox 025-2,5²/w white, with screw terminal, 5-poles - 2.5 mm² (4 x 1.5² / 4 x 2.5²)	802 107 01	60/3
Abox 025 SB-L red cover, without terminals, for identifying circuits for safety lighting	802 707 01	60/3

Abox-*i* 025

80 x 80 x 52 mm

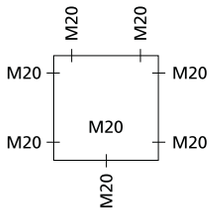


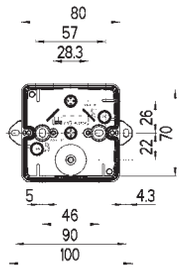


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), U_i=690V, weathering-proof, shock-proof, halogen-free, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm		
IP65 · 2,5² · IK08 · 690V AC · halogen-free		
Abox-*i* 025-L grey, without terminals	490 902 01	60/3
Abox-*i* 025-2,5² grey, with screw terminals, 5-poles - 2.5 mm² (4 x 1.5² / 4 x 2.5²)	490 402 01	60/3
Abox-*i* 025 SB-L red cover, without terminals, for identifying circuits for safety lighting	490 702 01	60/3
Abox-*i* 025-L/sw black, without terminals	491 902 01	60/3
Abox-*i* 025-2,5²/sw black, with screw terminal, 5-poles - 2.5 mm² (4 x 1.5² / 4 x 2.5²)	491 402 01	60/3

Abox 025 AB

80 x 80 x 52 mm



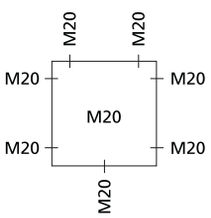


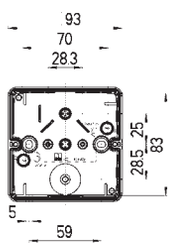
Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm, with external fixing lugs		
IP65 · 2,5² · IK07 · 690V AC · halogen-free		
Abox 025 AB-L grey, without terminals	803 907 01	60/3
Abox 025 AB-2,5² grey, with screw terminals, 5-poles - 2.5 mm² (4 x 1.5² / 4 x 2.5²)	803 407 01	60/3
Abox 025 AB-L/w white, without terminals	803 607 01	60/3
Abox 025 AB-Pot grey, with 15 mm mounting rail TS 15, PE terminal block 4²	803 427 01	60/3

The **Abox 25 AB Pot** was especially developed for rooms with particularly stringent equipotential requirements, such as computer rooms

Abox 040

93 x 93 x 55 mm

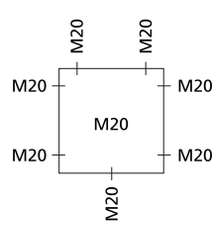


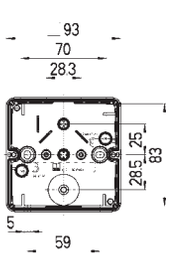


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm		
IP65 · 4² · IK07 · 690V AC · halogen-free		
Abox 040-L grey, without terminals	804 907 01	60/3
Abox 040-4,0² grey, screw terminal, 5-poles - 2.5/4.0 mm² (4 x 1.5² / 4 x 2.5² / 3 x 4.0²)	804 407 01	60/3
Abox 040-L/w white, without terminals	804 607 01	60/3
Abox 040-4,0²/w white, with screw terminal, 5-poles - 2.5/4.0 mm² (4 x 1.5² / 4 x 2.5² / 3 x 4.0²)	804 107 01	60/3
Abox 040 SB-L red cover, without terminals, for identifying circuits for safety lighting	804 707 01	60/3

Abox-*i* 040

93 x 93 x 55 mm

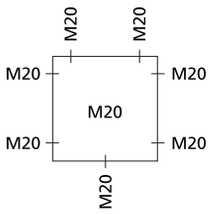


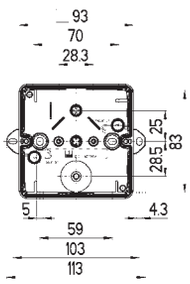


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), weathering-proof, U_i=690V, shock-proof, halogen-free, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm		
IP65 · 4² · IK08 · 690V AC · halogen-free		
Abox-*i* 040-L grey, without terminals	490 904 01	60/3
Abox-*i* 040-4² grey, with screw terminals, 5-poles - 2.5/4.0 mm² (4 x 1.5² / 4 x 2.5² / 3 x 4.0²)	490 404 01	60/3
Abox-*i* 040 SB-L red cover, without terminals, for identifying circuits for safety lighting	490 704 01	60/3
Abox-*i* 040-L/sw black, without terminals	491 904 01	60/3
Abox-*i* 040-4²/sw black, with screw terminal, 5-poles - 2.5/4.0 mm² (4 x 1.5² / 4 x 2.5² / 3 x 4.0²)	491 404 01	60/3

Abox 040 AB

93 x 93 x 55 mm

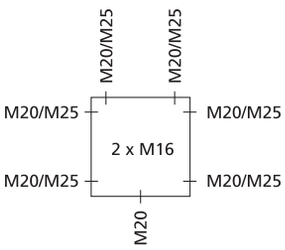


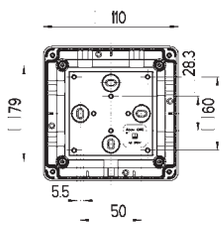


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm, with external fixing lugs		
IP65 · 4² · IK07 · 690V AC · halogen-free		
Abox 040 AB-L grey without terminals	805 907 01	60/3
Abox 040 AB-4² grey, screw terminal, 5-poles - 2.5/4.0 mm² (4 x 1.5² / 4 x 2.5² / 3 x 4.0²)	805 407 01	60/3
Abox 040 AB-L/w white, without terminals	805 607 01	60/3

Abox 060

110 x 110 x 67 mm

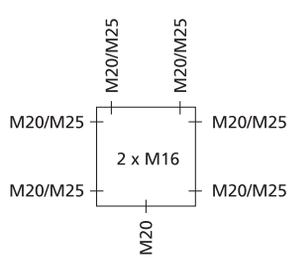


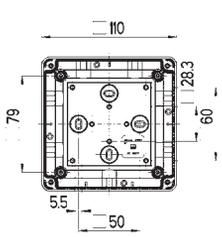


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M25, seal range 9 - 18.5 mm		
IP65 IP54 · 6² · IK07 · 690V AC · halogen-free		
Abox 060-L grey, without terminals	806 907 01	24/2
Abox 060-6² grey, with high-set screwless terminal , 5-pole - 6 mm² (4 x 2.5² / 4 x 4² / 3 x 6²)	806 407 01	24/2
Abox 060 SB-L red cover, without terminals, for identifying circuits for safety lighting	806 707 01	24/2

Abox-*i* 060

110 x 110 x 67 mm

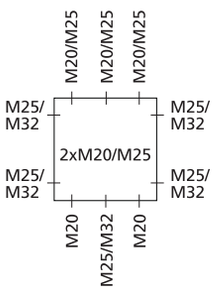


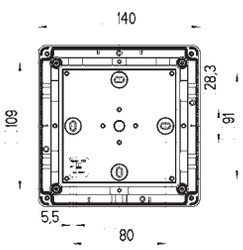


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), U_i=690V, weathering-proof, shock-proof, halogen-free, with IP66 double-membrane seals, M25, seal range 9 - 16 mm		
IP65 · 6² · IK08 · 690V AC · halogen-free		
Abox-*i* 060-L grey, without terminals	490 906 01	24/2
Abox-*i* 060-6² grey, with high-set screwless terminal , 5-pole - 6 mm² (4 x 2.5² / 4 x 4² / 3 x 6²)	490 406 01	24/2
Abox-*i* 060-L/sw black, without terminals	491 906 01	24/2
Abox-*i* 060-6²/sw black, with high-set screw terminal , 5-pole - 6 mm² (4 x 2.5² / 4 x 4² / 3 x 6²)	491 406 01	24/2

Abox 100

140 x 140 x 79 mm

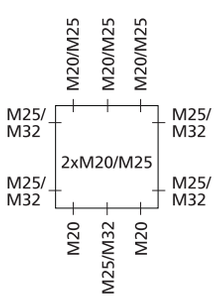


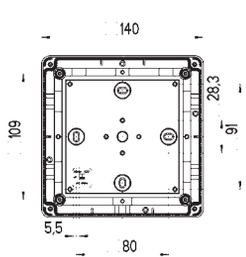


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M32, seal range 13 - 23 mm		
IP65 IP54 · 10² · IK07 · 690V AC · halogen-free		
Abox 100-L grey, without terminals	810 910 01	20/2
Abox 100-10² grey, with high-set screwless terminal , 5-poles - 10 mm² (4 x 4² / 4 x 6² / 4 x 10²)	810 410 01	20/2

Abox-*i* 100

140 x 140 x 79 mm





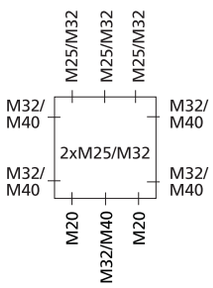
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), U_i=690V, weathering-proof, shock-proof, halogen-free, with IP66 double-membrane seals, M32, seal range 14 - 21 mm

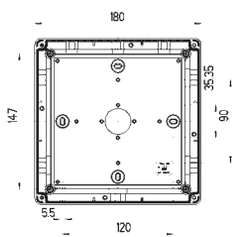
IP65 · 10² · IK08 · 690V AC · halogen-free

Abox-*i* 100-L grey, without terminals	490 910 01	20/2
Abox-*i* 100-10² grey, with high-set screwless terminal , 5-poles - 10 mm² (4 x 4² / 4 x 6² / 4 x 10²)	490 410 01	20/2
Abox-*i* 100-L/sw black, without terminals	491 910 01	20/2
Abox-*i* 100-10²/sw black, with high-set screw terminals , 5-poles - 10 mm² (4 x 4² / 4 x 6² / 4 x 10²)	491 410 01	20/2

Abox 160

180 x 180 x 91 mm

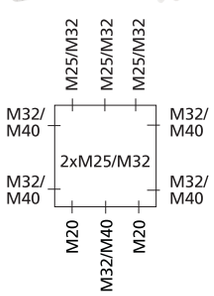


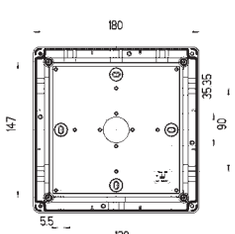


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M40, seal range 17 - 30 mm, with sealing kit		
IP65 IP54 · 16² · IK07 · 690V AC · halogen-free		
Abox 160-L grey, without terminals	816 910 01	10/1
Abox 160-16² grey, with 5-pole high-set screw terminal, 5-poles - 16 mm² (4 x 6² / 4 x 10² / 4 x 16²)	816 410 01	10/1

Abox-*i* 160

180 x 180 x 91 mm

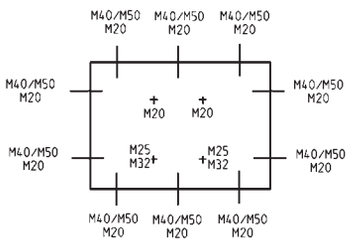


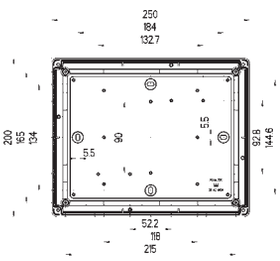


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), U_i=690V, weathering-proof, shock-proof, halogen-free, with sealing kit, for suitable cable in-feeds see accessories		
IP65 · 16² · IK08 · 690V AC · halogen-free		
Abox-*i* 160-L grey, without terminals	490 916 01	10/1
Abox-*i* 160-16² grey, with 5-pole high-set screw terminal, 5-poles - 16 mm² (4 x 6² / 4 x 10² / 4 x 16²)	490 416 01	10/1
Abox-*i* 160-L/sw black, without terminals	491 916 01	10/1
Abox-*i* 160-16²/sw black, with high-set screw terminals , 5-poles - 16 mm² (4 x 6² / 4 x 10² / 4 x 16²)	491 416 01	10/1

Abox 250

250 x 200 x 115 mm



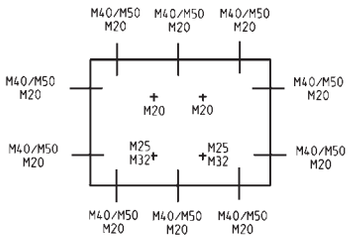


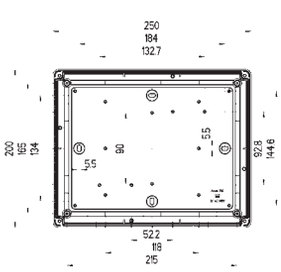
Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M40, seal range 17 - 30 mm, with sealing kit		
Abox 250-L grey, without terminals	825 910 01	4/1
Abox 250-25² grey, with 5-pole high-set screw terminal, 5-pole - 25 mm² (4 x 10² / 4 x 16² / 4 x 25²)	825 410 01	4/1

IP65 IP54 | 25² | IK07 | 690V AC | halogen-free

Abox-*i* 250

250 x 200 x 115 mm



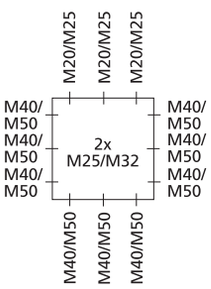


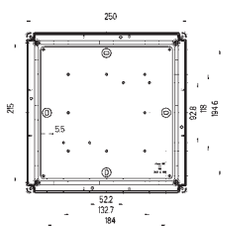
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), U_i=690V, weathering-proof, shock-proof, halogen-free, with sealing kit, for suitable cable in-feeds see accessories		
Abox-*i* 250-L grey, without terminals	490 925 01	4/1
Abox i 250 25² grey, with 5-pole high-set screw terminal, 5-pole - 25 mm² (4 x 10² / 4 x 16² / 4 x 25²)	490 425 01	4/1

IP65 | 25² | IK08 | 690V AC | halogen-free

Abox 350

250 x 250 x 115 mm

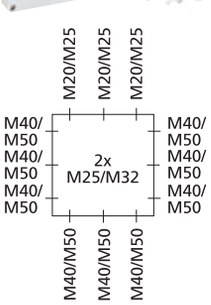


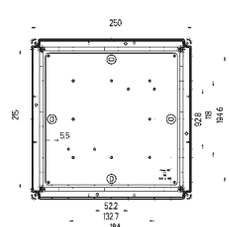


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M40, seal range 17 - 30 mm, with sealing kit		
IP65 IP54 · 35² · IK07 · 690V AC · halogen-free		
Abox 350-L grey, without terminals	835 910 01	4/1
Abox 350-35² grey, with 5-pole high-set screw terminal, 5-poles - 35 mm² (4 x 16² / 4 x 25² / 4 x 35²)	835 410 01	4/1

Abox-*i* 350

250 x 250 x 115 mm

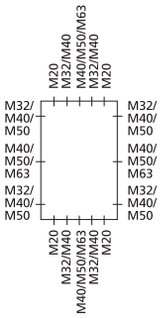


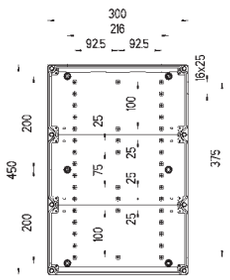


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670 (VDE 0606), U_i=690V, weathering-proof, shock-proof, halogen-free, with sealing kit, for suitable cable in-feeds see accessories		
IP65 · 35² · IK08 · 690V AC · halogen-free		
Abox-*i* 350-L grey, without terminals	490 935 01	4/1
Abox-*i* 350-35² grey, with 5-pole high-set screw terminal, 5-poles - 35 mm² (4 x 16² / 4 x 25² / 4 x 35²)	490 435 01	4/1
Abox-*i* 350-L/sw black, without terminals	491 935 01	4/1
Abox-*i* 350-35²/sw black, with high-set screw terminals , 5-poles - 35 mm² (4 x 16² / 4 x 25² / 4 x 35²)	491 435 01	4/1

Abox 700

300 x 450 x 132 mm



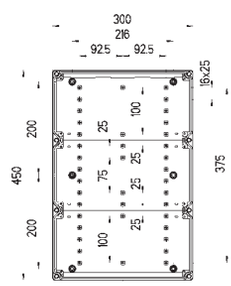


Description	Order No.	Packing Qty
Junction box , U_i=690V, with 3 twist nipples and lock nut, IP54, M63, seal range 24 - 43 mm, Standard version sealable		
IP65 IP54 · 70² · IK07 · 690V AC · halogen-free		
Abox 700-L grey, without terminals	870 910 01	1/1
Abox 700-70² grey, 4 terminal blocks 4 x 70 mm²	870 410 01	1/1
Accessories		
Abox 700 KLS-70² terminal extension to 5 poles, 1-poles 70 mm²	840 070 01	1/1
NS 35-216 mounting rail Length 216 mm	795 030 01	1/1
AK MPI 3 mounting plate of insulating material 390 x 240 mm	795 003 01	1/1

Abox-*i* 700

440 x 320 x 179 mm

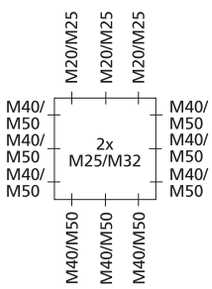
Entries end:
8 x M20/M25
2 x M32/M40
1 x M40/M50
Entries on each side:
4 x M16
3 x M40/M50

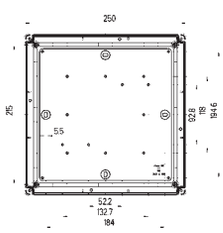


Junction box - **I**ndustrial **Q**uality, U_i=690V, weathering-proof, shock-proof, halogen-free, sealable, for suitable cable in-feeds see accessories		
IP65 · 70² · IK08 · 690V AC · halogen-free		
Abox-*i* 700-70² grey, with 4 terminal blocks 4 x 70 mm², 16 - 70²	490 470 01	1/1
Accessories		
Abox 700 KLS-70² terminal extension to 5 poles, 1-poles 70 mm²	840 070 01	1/1
GKE 32 cable in feeds width 320 mm, 2 x 75 mm Ø	073 032 01	1/1
GKE 43 cable in feeds width 440 mm, 3 x 75 mm Ø	073 043 01	1/1

Abox HA 250

250 x 250 x 115 mm

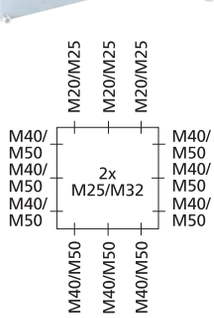


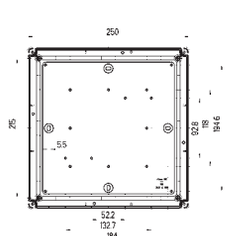


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, with main cable junction terminal, 25 mm², with IP54 attachment bushes, with sealing plug M40, with twist nipple M50, screw terminal 4-pole 25 mm², input per pole 2 x 25 mm², output per pole 4 x 16 mm², with sealing kit		
IP65 IP54 · 25² · IK07 · 690V AC · halogen-free		
Abox HA 250 grey, with 4 pole screw terminal 25 mm²	480 425 01	4/1

Abox HA 350

250 x 250 x 115 mm





Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, with main cable junction terminal, 35 mm², with IP54 attachment bushes, with sealing plug M40, with twist nipple M50, screw terminal 4-pole 35 mm², input per pole 2 x 35 mm², output per pole 4 x 35 mm², with sealing kit		
IP65 IP54 · 35² · IK07 · 690V AC · halogen-free		
Abox HA 350 grey, with 4 pole screw terminal 35 mm²	480 435 01	4/1

Abox-*i* 1500

440 x 320 x 179 mm

Entries end:
8 x M20/M25
2 x M32/M40
1 x M40/M50
Entries on each side:
4 x M16
3 x M40/M50

Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality, U_i=690V, weathering-proof, shock-proof, halogen-free, sealable, special screw terminal for conductor entry on top, per pole up to 2 x 150² or 4 x 70², for suitable cable in-feeds see accessories		
IP65 · 150² · IK08 · 690V AC · halogen-free		
Abox-*i* 1500-150² grey, 4 pole up to 2 x 150 mm², AL/CU	490 485 01	1/1
Accessories		
AKL 125 terminal extension to 5 poles, 1-poles 2 x 150 mm²	076 125 01	1/1
GKE 32 cable in feeds width 320 mm, 2 x 75 mm Ø	073 032 01	1/1
GKE 43 cable in feeds width 440 mm, 3 x 75 mm Ø	073 043 01	1/1
Recommended Accessories from 120 mm²		
1x GTi 1-g empty enclosure	010 401 01	1/1
2x GFL 20 flange	072 200 01	1/1
1x GZE cable strain relief	073 003 01	1/1
1x GKE 32 cable in feed	073 032 01	1/1
1x GFG 3 enclosure wall	072 803 01	1/1

Abox-*i* 1500 DK

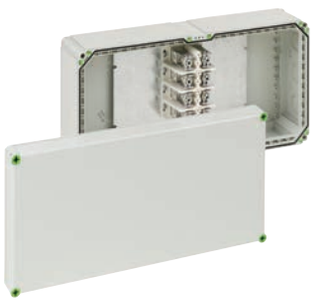
440 x 320 x 179 mm

Entries end:
8 x M20/M25
2 x M32/M40
1 x M40/M50
Entries on each side:
4 x M16
3 x M40/M50

Junction box - **I**ndustrial **Q**uality, U_i=690V, weathering-proof, shock-proof, halogen-free, with terminal block mounting, for suitable cable in-feeds see accessories		
IP65 · 150² · IK08 · 690V AC · halogen-free		
Abox-*i* 1500 DK-150² grey, with 4 terminal blocks 95 - 150 mm²	490 585 01	1/1
Accessories		
URS RK1 terminal extension to 5 poles, 1-poles 2 x 150 mm²	670 650 01	1/1
GKE 32 cable in feeds width 320 mm, 2 x 75 mm Ø	073 032 01	1/1
GKE 43 cable in feeds width 440 mm, 3 x 75 mm Ø	073 043 01	1/1
Recommended Accessories from 120 mm²		
1x GTi 1-g empty enclosure	010 401 01	1/1
2x GFL 20 flange	072 200 01	1/1
1x GZE cable strain relief	073 003 01	1/1
1x GKE 32 cable in feed	073 032 01	1/1
1x GFG 3 enclosure wall	072 803 01	1/1

Abox-*i* 2400

640 x 320 x 179 mm



Entries end:
8 x M20/M25
2 x M32/M40
1 x M40/M50
Entries on each side:
4 x M16
3 x M40/M50

Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality, U_i=690V, weathering-proof, shock-proof, halogen-free, sealable, special screw terminal for conductor entry on top, per pole up to 2 x 185²/240² or 4 x 120², for suitable cable in-feeds see accessories		
IP65 · 240² · IK08 · 690V AC · halogen-free		
Abox-*i* 2400-240² grey, 4 pole up to 2 x 240 mm², AL/CU	490 494 01	1/1
Accessories		
AKL 140 terminal extension to 5 poles, 1-poles 2 x 240 mm²	076 140 01	1/1
GKE 32 cable in feeds width 320 mm, 2 x 75 mm Ø	073 032 01	1/1
Recommended Accessories from 120 mm²		
1x GTi 1-g empty enclosure	010 401 01	1/1
2x GFL 20 flange	072 200 01	1/1
1x GZE cable strain relief	073 003 01	1/1
1x GKE 32 cable in feed	073 032 01	1/1
1x GFG 3 enclosure wall	072 803 01	1/1

Abox-*i* 2400 DK

640 x 320 x 179 mm

Entries end:
8 x M16
6 x M40/M50
Entries on each side:
4 x M16
3 x M40/M50

Junction box - **I**ndustrial **Q**uality, U_i=690V, weathering-proof, shock-proof, halogen-free, sealable, with terminal block mounting, for suitable cable in-feeds see accessories		
IP65 · 240² · IK08 · 690V AC · halogen-free		
Abox-*i* 2400 DK-240² grey, with 4 terminal blocks 120 - 240 mm²	490 594 01	1/1
Accessories		
URS RK1 terminal extension to 5 poles, 1-poles 2 x 240 mm²	670 740 01	1/1
GKE 32 cable in feeds width 320 mm, 2 x 75 mm Ø	073 032 01	1/1
Recommended Accessories from 120 mm²		
1x GTi 1-g empty enclosure	010 401 01	1/1
2x GFL 20 flange	072 200 01	1/1
1x GZE cable strain relief	073 003 01	1/1
1x GKE 32 cable in feed	073 032 01	1/1
1x GFG 3 enclosure wall	072 803 01	1/1

Abox / Abox-*i* terminals

Description		Order No.	Packing Qty
Connecting terminal acc. DIN EN 60998 (VDE 0613), U_i=690V			
	Terminals		
Abox 025/040 KLS-2,5²/4²	5-poles - 2.5/4 mm	840 004 01	160/10
Abox 060 KLS-6²	5-poles - 6 mm²	840 006 01	100/1
Abox 100 KLS-10²	5-poles - 10 mm	840 010 01	160/1
Abox 160 KLS-16²	5-poles - 16 mm²	840 016 01	50/1
Abox 250/350 KLS-25²/35²	5-poles - 35 mm	840 035 01	30/1
Abox 700 KLS-70²	5-poles - 70 mm	840 070 01	20/1
AKL 125	1-pole - 150 mm²	076 125 01	12/1
AKL 140	1-pole - 240 mm²	076 140 01	1/1

Sealing set

Sealing set		
Abox PST for junction boxes Abox/Abox-*i* 025 to 100, (from Abox / Abox-i 160, contained as standard in the delivery)	890 010 01	500/1

Cable in feeds

Cable entry via module with folded rubber for cables of up to 75 mm diameter for Abox-*i* 700 / 1500 / 2400		
GKE 32 Housing side 320 mm, for 2 x 75 mm diameter cables	073 032 01	4/1
GKE 43 Housing side 440 mm, for 3 x 75 mm diameter cables	073 043 01	4/1

cable clamp

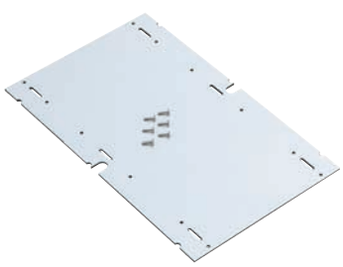
Cable strain relief for cables up to 75 mm for Abox-*i* 2400		
GZE 3 Housing side 320 mm, for 1 x 75mm cable	073 003 01	10/1
GZE 4 Housing side 440 mm, for 1 x 75mm cable	073 004 01	5/1

Mounting rail

35 x 7,5 mm

Description	Order No.	Packing Qty
Mounting rail acc. DIN EN 60715, 35 x 7,5, width 35mm, incl. fixing screws		
NS35-81 TK 1111/1309/1313/1809/1811, Abox/Abox-*i* 060	198 081 01	1/1
NS35-106 TK 1309/1313, Abox/Abox-*i* 100	198 106 01	1/1
NS35-144/2 Abox/Abox-*i* 160 Abox/Abox-*i* 250	894 016 01	1/1
NS35-216/2 Abox/Abox-*i* 350	894 035 01	1/1
NS35-216/3 universal floor fixing, length 216 mm, with fixing screws	795 030 01	1/1

Mounting plates



Mounting plate made from insulation material for installing equipment with floor fixing, incl. fixing screws

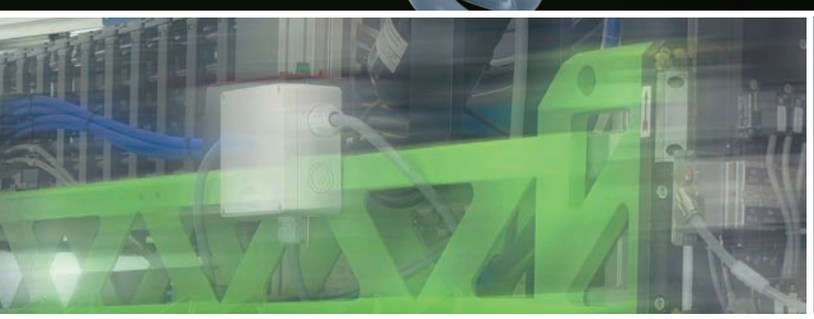
	Dimensions/mm	Type		
Abox 060 MPI	83 x 83	Abox/Abox-i 060	895 006 01	50/1
Abox 100 MPI	109 x 109	Abox/Abox-i 100	895 010 01	50/1
Abox 160 MPI	149 x 149	Abox/Abox-i 160 Abox/Abox-i 250	895 016 01	25/1
Abox 350 MPI	217 x 217	Abox/Abox-i 350	895 035 01	20/1
AK MPI 3	240 x 390 x 4.0	AKL / AKi 3-4, Abox/Abox-i 700	795 003 01	1/1

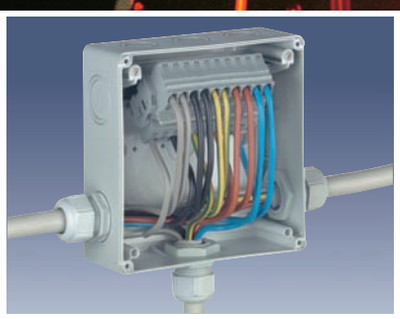
Junction Boxes Abox *SL*/Abox-*i* *SL**

IP65 | 16² | IK07 | 400V AC | halogen-free

IP65 | 16² | IK08 | 400V AC | Lloyd's Register TYPE APPROVED | halogen-free | Industrial quality

* screwless terminal technology





Lloyd's Register TYPE APPROVED

Abox-*i* *SL* - now with Lloyd Certification!

- The newly developed Abox *SL* / Abox-*i* *SL* combines the wiring philosophy of the Abox series with screwless terminal technology

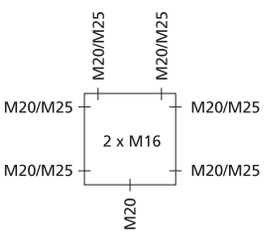
- Standard installation in damp rooms
- Installation on inflammable surface
- Installations in agricultural and horticultural premises

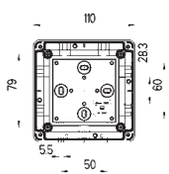
- Installation with increased requirements of vibration and shock protection
- Rapid assembly using screwless terminal technology

- 0.5 - 16 (25) mm²
- Maintenance-free
- Vibration-proof and shockproof

Abox *SL*-2,5²

110 x 110 x 67 mm

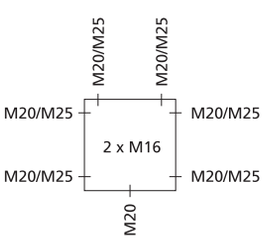


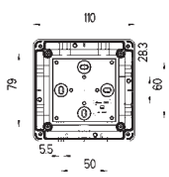


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, with IP54 attachment bushes, with sealing plug M25, seal range 9 - 18.5 mm		
IP65 IP54 · 2,5² · IK07 · 400V AC		
Abox *SL*-2,5² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 2.5 mm² for current carrying capacity of 32 A, cross sections that can be clamped per pole: 3 x 0.08 up to 2.5 mm² rigid and flexible	806 807 01	24/2

Abox-*i* *SL*-2,5²

110 x 110 x 67 mm

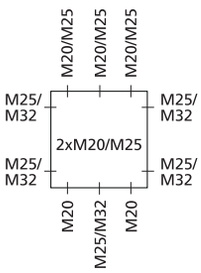


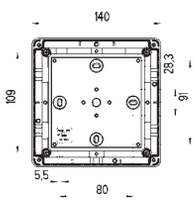


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22, U_i=400V, weathering-proof, shock-proof, halogen-free, with IP66 double-membrane seals, M25, seal range 9 - 18.5 mm, for suitable cable in-feeds see accessories		
IP65 · 2,5² · IK08 · 400V AC		
Abox-*i* *SL*-2,5² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 2.5 mm² for current carrying capacity of 32 A, cross sections that can be clamped per pole: 3 x 0.08 up to 2.5 mm² rigid and flexible	490 806 01	24/2

Abox *SL*-6²

140 x 140 x 79 mm

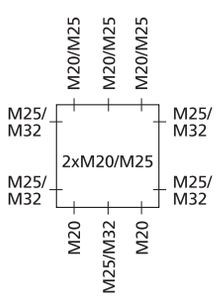


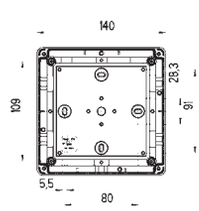


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M32, seal range 13 - 23 mm		
IP65 IP54 · 6² · IK07 · 690V AC · halogen-free		
Abox *SL*-6² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 6 mm² for current carrying capacity of 41 A, cross sections that can be clamped per pole: 4 x 0.5 bis 10 mm² rigid and flexible	810 810 01	20/2

Abox-*i* *SL*-6²

140 x 140 x 79 mm

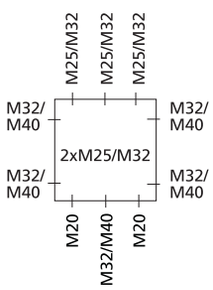


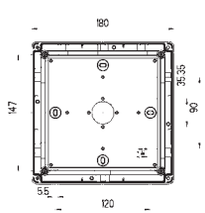


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22, U_i=690V, weathering-proof, shock-proof, halogen-free, with IP66 double-membrane seals, M32 seal range 14 - 21 mm, sealing set, for suitable cable in-feeds see accessories		
IP65 · 6² · IK08 · 690V AC · Lloyd's Register · halogen-free		
Abox-*i* *SL*-6² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 6 mm² for current carrying capacity of 41 A, cross sections that can be clamped per pole: 4 x 0.5 up to 10 mm² rigid and flexible	490 810 01	20/2

Abox *SL*-10²

180 x 180 x 91 mm

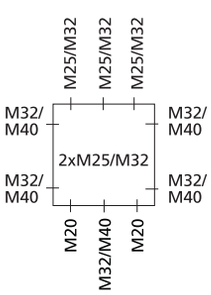


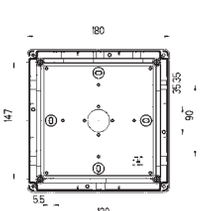


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M40, seal range 17 - 30 mm, with sealing kit		
IP65 IP54 · 10² · IK07 · 690V AC		
Abox *SL*-10² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 10 mm² for current carrying capacity of 57 A, cross sections that can be clamped per pole: 4 x 0.5 up to 16 mm² rigid and flexible	816 810 01	10/1

Abox-*i* *SL*-10²

180 x 180 x 91 mm

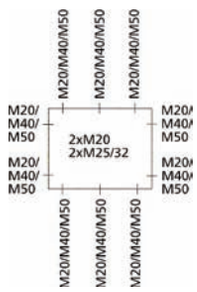


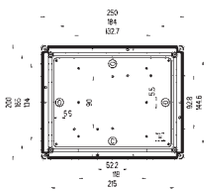


Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22, U_i=690V, weathering-proof, shock-proof, halogen-free, with sealing kit, for suitable cable in-feeds see accessories		
IP65 · 10² · IK08 · 690V AC		
Abox-*i* *SL*-10² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 10 mm² for current carrying capacity of 57 A, cross sections that can be clamped per pole: 4 x 0.5 up to 16 mm² rigid and flexible	490 816 01	10/1

Abox *SL*-16²

250 x 200 x 115 mm





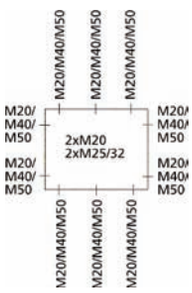
Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, with IP54 attachment bushes, with sealing plug M40, M40, seal range 17 - 30 mm, Sealing set		

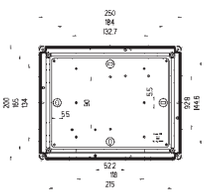
IP65 IP54 | 16² | IK07 | 690V AC | halogen-free

Abox *SL*-16² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 16 mm² for for current rating of 76 A, cross sections that can be clamped per pole: 4 x 0.5 up to 16 mm² rigid, 4 x 0.5 up to 25 mm² flexible	835 810 01	4/1

Abox-*i* *SL*-16²

250 x 200 x 115 mm





Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22, U_i=690V, weathering-proof, shock-proof, halogen-free, with sealing kit, for suitable cable in-feeds see accessories

IP65 | 16² | IK08 | 690V AC | Lloyd's Register | halogen-free

Abox-*i* *SL*-16² grey, with 5-pole high-set screwless terminal, nominal cross-section acc. EN 60998: 16 mm² for for current rating of 76 A, cross sections that can be clamped per pole: 4 x 0.5 up to 16 mm² rigid, 4 x 0.5 up to 25 mm² flexible	490 835 01	4/1

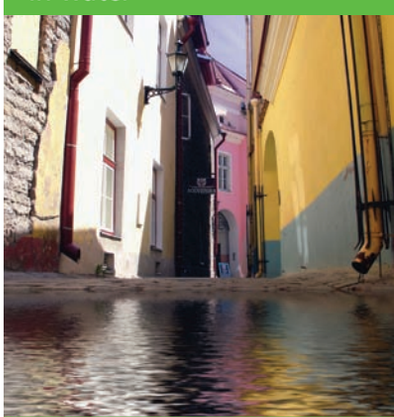
Junction Boxes Abox *GT**
designed for extrem applications

IP68 | 10² | IK08 | 690V AC | halogen-free

Industrial quality

GT* = cast resin technology

In water



In soil

Box can be filled cleanly and tidily with cast resin using the handy mixer bag

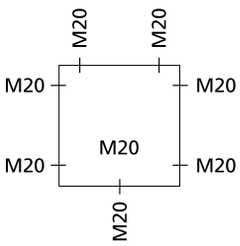
Application and use
- flooded areas
- washing machines
- tunnels
- docks

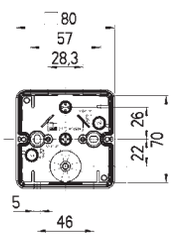
In extreme cases the Abox GT series will even withstand stagnant water

- **Can be re-installed without cost as the cast resin is easy to remove again**
- **Tested to DIN EN 60 529, IP 68, 168 h up to 15 metres depth of water**
- **Tested to DIN VDE 0278-623, cable gland test up to 0.6 / 1 kV**
- **For cable cross-sections from 1.5 to 10 mm²**
- **Shock and fracture proof, low flammability**
- **UV and weather-resistant**

Abox *GT* 025-2,5²

80 x 80 x 52 mm

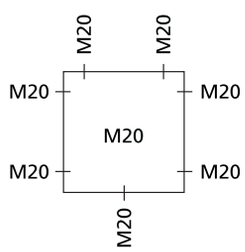


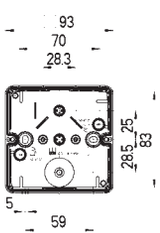


Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60529 and VDE 0278-623, weather-resistant and shockproof, U_i=690V, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm, with cast resin bag 250 ml (no product code), funnel, ventilation seals and disposable gloves		
IP68 · 2,5² · IK08 · 690V AC · halogen-free		
Abox *GT* 025-2,5² grey, with screw terminals, 5-poles - 2.5 mm² (4 x 1.5² / 4 x 2.5²)	492 402 01	1/1

Abox *GT* 040-4²

93 x 93 x 55 mm

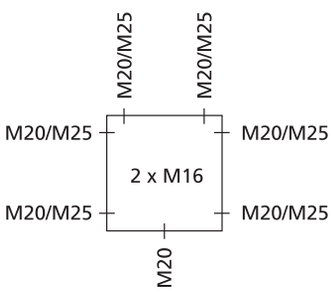


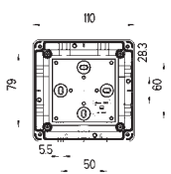


Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60529 and VDE 0278-623, weather-resistant and shockproof, U_i=690V, with self-sealing, soft inlet membranes, M20, seal range 2 - 16 mm, with cast resin bag 350 ml (no product code), funnel, ventilation seals and disposable gloves		
IP68 · 4² · IK08 · 690V AC · halogen-free		
Abox *GT* 040-4² grey, with screw terminals, 5-poles - 2.5/4.0 mm² (4 x 1.5² / 4 x 2.5² / 3 x 4.0²)	492 404 01	1/1

Abox *GT* 060-6²

110 x 110 x 67 mm

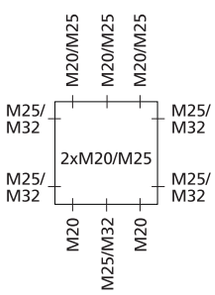


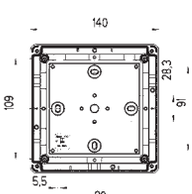


Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60529 and VDE 0278-623, weather-resistant and shockproof, with double-membrane seals M25, seal range 9 - 16 mm, with cast resin bag 600 ml (no product code), funnel, ventilation seals and disposable gloves		
IP68 · 6² · IK08 · 690V AC · halogen-free		
Abox *GT* 060-6² grey, with 5-pole high-set screw terminal, 5-pole - 6mm² (4 x 2.5² / 4 x 4² / 3 x 6²)	492 406 01	1/1

Abox *GT* 100-10²

140 x 140 x 79 mm





Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60529 and VDE 0278-623, weather-resistant and shockproof, with double-membrane seals M32, seal range 14 - 21 mm, with cast resin bag 1,200 ml (no product code), funnel, ventilation seals and disposable gloves		
IP68 · 10² · IK08 · 690V AC · halogen-free		
Abox *GT* 100-10² grey, with high-set screwless terminal , 5-poles - 10 mm² (4 x 4² / 4 x 6² / 4 x 10²)	492 410 01	1/1

GHB 1 Cast-resin bag

Description	Order No.	Packing Qty
Cast-resin bags GHB 1, 250 ml, for Abox *GT* 025-2,5², no product code with funnel and disposable gloves		
GHB 1 Cast-resin bag 250ml	492 502 01	1/1

GHB 2 Cast-resin bag

Cast-resin bag GHB 2, 350 ml, for Abox *GT* 040-4², no product code with funnel and disposable gloves		
GHB 2 Cast-resin bag 350 ml	492 504 01	1/1

GHB 3 Cast-resin bag

Cast-resin bag GHB 3, 600 ml, for Abox *GT* 060-6² no product code with funnel and disposable gloves		
GHB 3 Cast-resin bag 600 ml	492 506 01	1/1

GHB 4 Cast-resin bag

Cast-resin bag GHB 4, 1200 ml, for Abox *GT* 100-10², no product code with funnel and disposable gloves		
GHB 4 Cast-resin bag 1200 ml	492 510 01	1/1

Junction Boxes
S-Box

IP67 | 16 ^{2} | IK09 | 450V AC | halogen-free | **Industrial quality**

- **Optimal protection against damage or vandalism (IK09)**
- **Suitable for the use of through-wired terminal blocks with screw connections**

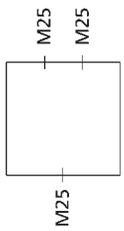
- **Punches, kicks, attacks with tools, even fire – nothing can damage the S-Box**

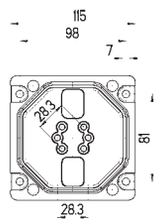
- **High degree of protection enabling it to be used in conditions up to IP67**

- **PinTorx screws (available as accessories) prevent unauthorised opening of the boxes**

S-Box 040

115 x 115 x 93 mm

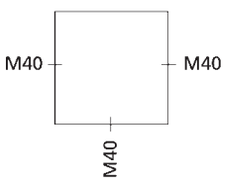


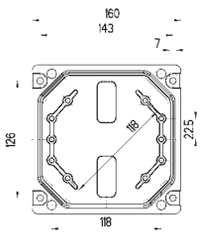


Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22 and IEC 62262, U_i=450V, weathering-proof, shock-proof, halogen-free, with IP68 cable glands, M25, with IP65 blanking plug, M25, seal range 7 - 16 mm, suitable for use of through-wired terminal blocks with screw connections		
IP67 · 4² · IK09 · 450V AC · halogen-free		
S-Box 040-L grey, without terminals, with standard rails, 35 mm	493 904 01	1/1

S-Box 100

160 x 160 x 110 mm

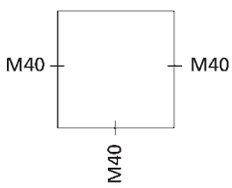


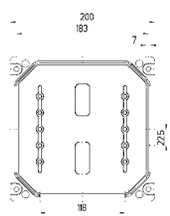


Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22 and IEC 62262, U_i=450V, weathering-proof, shock-proof, halogen-free, with IP68 cable glands, M40, with IP65 blanking plug, M40, seal range 16 - 28 mm, suitable for use of through-wired terminal blocks with screw connections		
IP67 · 10² · IK09 · 450V AC · halogen-free		
S-Box 100-L grey, without terminals, with standard rails, 35 mm	493 910 01	1/1

S-Box 160

200 x 200 x 110 mm





Description	Order No.	Packing Qty
Junction box - **I**ndustrial **Q**uality - acc. DIN EN 60670-1/-22 and IEC 62262, U_i=450V, weathering-proof, shock-proof, halogen-free, with IP68 cable glands, M40, with IP65 blanking plug, M40, seal range 16 - 28 mm, suitable for use of through-wired terminal blocks with screw connections		
IP67 · 16² · IK09 · 450V AC · halogen-free		
S-Box 160-L grey, without terminals, with standard rails, 35 mm	493 916 01	1/1

S-Box Accessories

S-Box Accessories		
WKE 200 ABL for WKE 200 up to WKE 400 and S-Box 040 up to S-Box 160, material stainless steel V2A (1.4301), Set = 4 pieces	860 400 01	100/1
KVS for WKE 200 up to WKE 400 and S-Box 040 up to S-Box 160, IK09, material stainless steel V2A (1.4301), Set=3 pieces	890 040 01	3/1
DSS Theft-proof screw set incl. 50 mm bit vandalism-proof, Set = 4 pieces	890 020 01	4/1
DVS Cover retainer, for WKE 200 tp to WKE 400 and S-Box 040 up to S-Box 160, Set = 1 piece	890 030 01	1/1

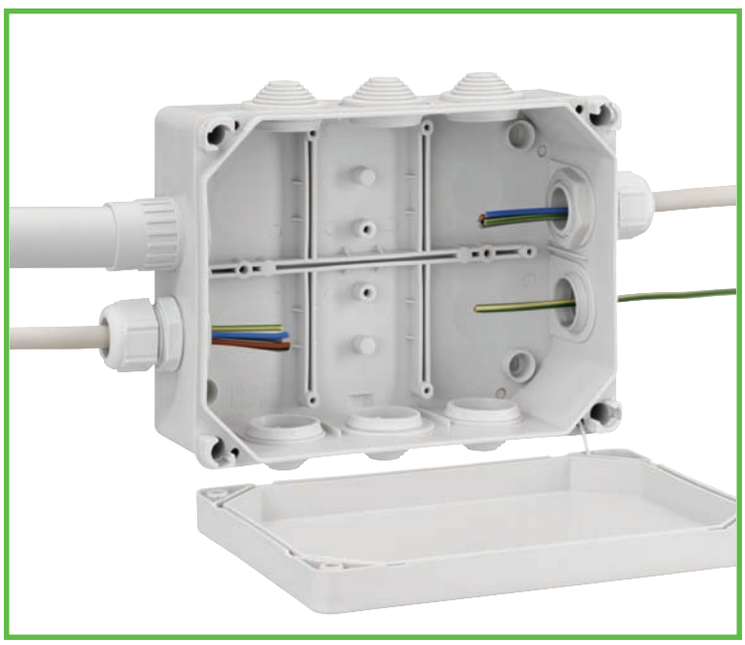
For every application the right accessories...

You will find more sealing elements on pages 332 - 339

These four-way double-membrane connection pieces (ingress prevention rating IP66) are doubly sealed with two membranes and offer secure entry to up to four cables.

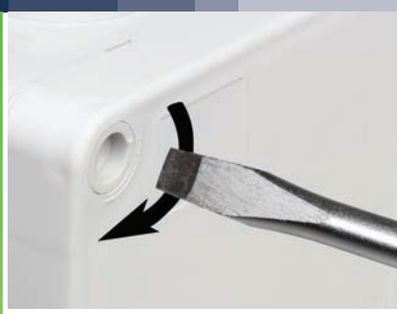
These highly elastic, flat, four-way double membrane connection pieces are made of thermoplastic elastomer, a high-grade halogen-free material that is both extremely flexible and extremely durable and ensures plenty of safety reserves for your installation. In addition, each of the cable entries in the seal is implemented as a double membrane, giving it the high ingress protection rating IP 66. This confirms that the installation is protected against dust and powerful water jets.

The M32 inlet seal can be used to safely, compactly and quickly introduce and seal from one to four cables of cross-section from 3.5 to 6 mm. You create openings simply by cutting off the caps of the connection pieces. The double membranes adapt automatically to the diameter of the cable, forming a reliable seal without restricting the flexibility of the installation. These multiple double-membrane connection pieces are suitable for installation in any housing with a wall thickness of from 1.5 to 4.5 mm.



Junction Boxes
HP 70 to HP 190

IP55 | 10[2] | IK07 | 400V AC

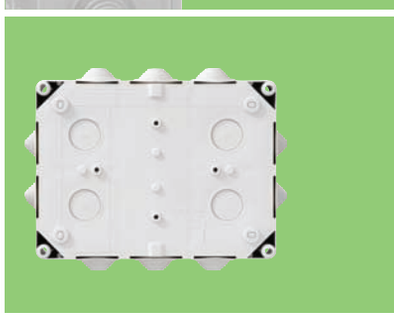


Overview of the characteristics of this HP series

Use	Weak acid	Strong acid	Weak alkali	Strong alkali	Alcohol	Benzin	Benzene	Mineral oil	Diesel	Ammonia	Vegetable oil	Animal oil	Free of halogen, heavy metal, PVC and silicone	Combustion behaviour to VDE 0471 / EN 60695 / UL 94
HP-Enclosures	●	◗	●	◗	●	◗	◗	●	◗	●	●	●	yes [1]	960°C/ V-2

● = resistant
◗ = partially-resistant
⊠ = not-resistant

1) The basic materials are halogen-free. The material only contains a small amount (6%) due to addition of flame-protection agents to the basic material.



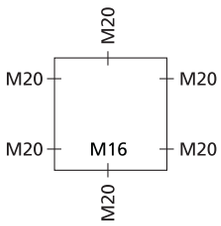
- 6 sizes
- Assembly on wood or other inflammable materials
- Assembled stepped nipple
- Connection diameter 1.5 mm² to 10 mm²
- Entry positions also suitable for metric add-on accessories

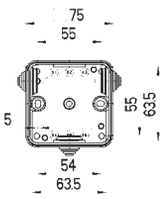
Suitable for the installation

- In damp and wet areas and rooms
- In buildings where there are crowds of people
- In temporary buildings, vehicles and caravans

HP 70

75 x 75 x 42 mm
Interior dimensions:
68 x 68 x 38 mm

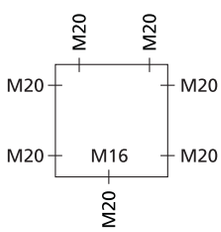


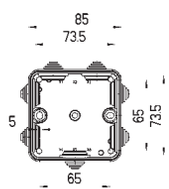


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 3 recessed stepped nipples, and two loose ones enclosed, seal range 5 - 16 mm, for terminals up to 2.5 mm²		
IP55 · 2,5² · IK07 · 400V AC		
HP 70-L grey, without terminals	320 970 01	60/1

HP 80

85 x 85 x 42 mm
Interior dimensions:
78 x 78 x 38 mm

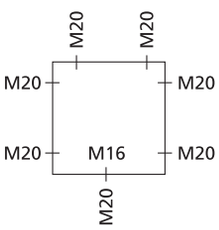


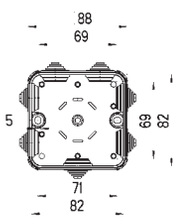


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 7 recessed stepped nipples, seal range 5 - 16 mm, for terminals up to 2.5 mm²		
IP55 · 2,5² · IK07 · 400V AC		
HP 80-L grey, without terminals	322 980 01	50/1

HP 90

90 x 90 x 45 mm
Interior dimensions:
82 x 82 x 38 mm

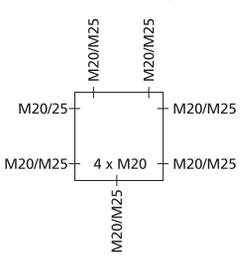


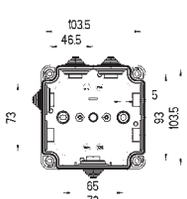


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, 7 recessed stepped nipples, seal range 5 - 16 mm, for terminals up to 4 mm²		
IP55 · 4² · IK07 · 400V AC		
HP 90-L grey, without terminals	325 990 01	40/1

HP 100

113 x 113 x 58 mm
Interior dimensions:
103.5 x 103.5 x 32 mm

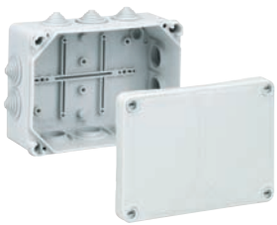


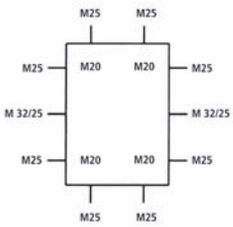


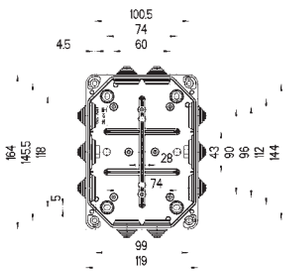
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, 7 recessed stepped nipples, seal range 5 - 21 mm, for terminals up to 10 mm²		
IP55 · 10² · IK07 · 690V AC		
HP 100-L grey, without terminals	326 900 01	20/1

HP 150

164 x 119 x 77 mm
Interior dimensions:
155 x 110 x 70 mm







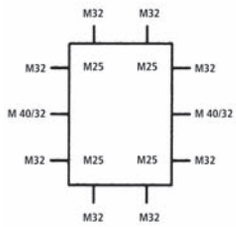
Description	Order No.	Packing Qty
Junction box, U_i=690V, 10 recessed stepped nipples, seal range 5 - 21 mm		

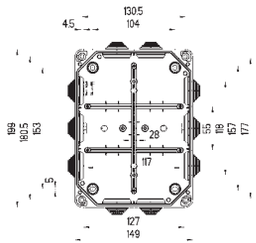
IP55 IK07 690V AC

HP 150-L grey, without terminals	326 950 01	12/1

HP 190

199 x 149 x 77 mm
Interior dimensions:
190 x 140 x 70 mm





Description	Order No.	Packing Qty
Junction box, U_i=690V, 10 recessed stepped nipples, seal range 13 - 26.5 mm		

IP55 IK07 690V AC

HP 190-L grey, without terminals	326 990 01	8/1

Junction Boxes
WK 007 to WK 250

IP54 | 25² | IK05 | 400V 690V AC | halogen-free | D V E

Overview of the characteristics of this WK series

Use	Weak acid	Strong acid	Weak alkali	Strong alkali	Alcohol	Benzin	Benzene	Mineral oil	Diesel	Ammonia	Vegetable oil	Animal oil	Free of halogen, heavy metal, PVC and silicone	Combustion behaviour to VDE 0471 / EN 60695 / UL 94
WK Housing	◗	◗	◗	◗	●	●	●	●	●	●	●	●	Yes	960°C /
Fitting terminal blocks of WK-Series except 4 mm²	⊗	⊗	◗	⊗	●	●	●	●	●	●	●	●	Yes	960°C / V-0

● = resistant
◗ = partially-resistant
⊗ = not-resistant

- Ingress protection to IP 54
- Halogen-free thermosetting plastic
- Glowing hot wire test according to VDE 0471 up to 960°C
- Conductor cross-section 2.5² u to 25²
- VDE-tested
- Suitable for use in operating areas with fire hazard according to VDE 0100 Part 482

Description	Order No.	Packing Qty

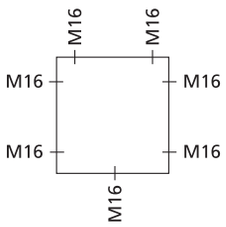
WK 007

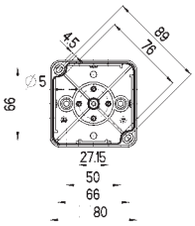
80 x 80 x 38 mm

Junction box acc. DIN EN 60670 (VDE 0606), U_i=400V, Duroplastic, halogen-free, with IP54 attachment bushes, with sealing plugs M16, seal range 6 - 10 mm

IP54 | 2,5² | IK05 | 400V AC | halogen-free

WK 007-L grey, without terminals	402 907 01	60/5
WK 007-2,5² grey, with screw terminals 5-poles - 2.5 mm², (6 x 1.5² / 4 x 2.5²)	402 407 01	60/5





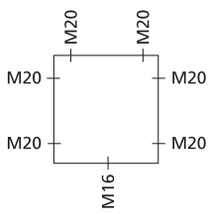
WK 040

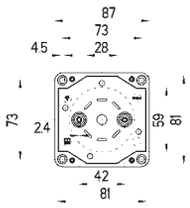
87 x 87 x 45 mm

Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, Duroplastic, halogen-free, with IP54 attachment bushes, with sealing plugs M20, seal range 8 - 13.5 mm

IP54 | 4² | IK05 | 690V AC | halogen-free

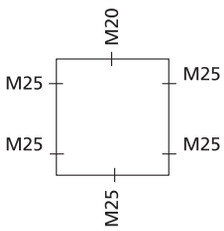
WK 040-L grey, without terminals	404 907 01	60/3
WK 040-4² grey, with screw terminals 5-poles - 4 mm², (6 x 2.5² / 4 x 4²)	404 407 01	60/3

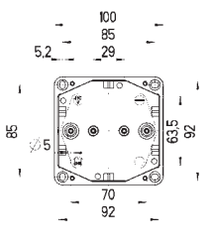




WK 060

100 x 100 x 50 mm

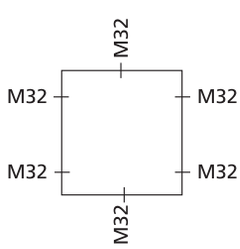


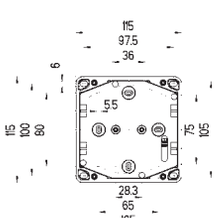


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, Duroplastic, halogen-free, with IP54 attachment bushes, with sealing plug M25, seal range 9 - 18.5 mm		
IP54 · 6² · IK05 · 690V AC · halogen-free		
WK 060-L grey, without terminals	406 906 01	30/3
WK 060-6² grey, with screw terminals 5-poles - 6 mm², (5 x 4² / 4 x 6²)	406 406 01	30/3

WK 100

115 x 115 x 66 mm

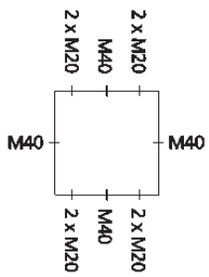


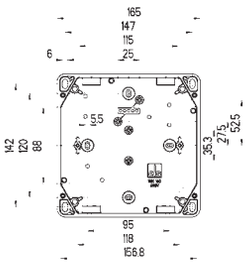


Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, Duroplastic, halogen-free, with IP54 attachment bushes, with sealing plug M32, seal range 13 - 23 mm, with sealing kit		
IP54 · 10² · IK05 · 690V AC · halogen-free		
WK 100-L grey, without terminals	410 906 01	20/1
WK 100-10² grey, with screw terminals 5-poles - 10 mm², (5 x 4² / 4 x 6² / 3 x 10²)	410 406 01	20/1

WK 160

165 x 165 x 76 mm

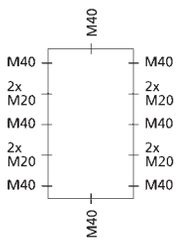


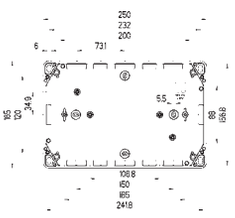


Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, Duroplastic, halogen-free, with IP54 attachment bushes, with sealing plug M40, seal range 17 - 30 mm, with sealing kit		
IP54 · 16² · IK05 · 690V AC · halogen-free		
WK 160-L grey, without terminals	416 912 01	12/1
WK 160-16² grey, with screw terminals 5-poles - 16 mm², (5 x 10² / 3 x 16²)	416 412 01	12/1

WK 250

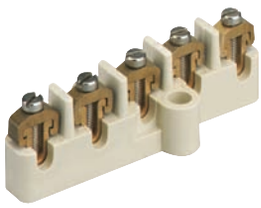
256 x 171 x 106 mm





Description	Order No.	Packing Qty
Junction box acc. DIN EN 60670 (VDE 0606), U_i=690V, Duroplastic, halogen-free, with IP54 attachment bushes, with sealing plug M40, seal range 17 - 30 mm, with sealing kit		
IP54 · 25² · IK05 · 690V AC · halogen-free		
WK 250-L grey, without terminals	425 916 01	6/1
WK 250-25² grey, with screw terminals 5-poles - 25 mm², (5 x 16² / 3 x 25²)	425 416 01	6/1

WK Terminal block



Connecting terminal, U_i=400V / 690V

Description	Terminals	Type	Order No.	Packing Qty
WK 007 KLS-2,5²	5-poles - 2.5mm²	WK 007	460 525 01	160/1
Abox 025/040 KLS-2,5²/4²	5-poles - 2.5 / 4mm²	WK 040	840 004 01	160/10
WK 060 KLS-6²	5-poles - 6mm²	WK 060	460 506 01	1/1
WK 100 KLS-10²	5-poles - 10mm²	WK 100	460 510 01	1/1
WK 160 KLS-16²	5-poles - 16mm²	WK 160	460 516 01	1/1
WK 250 KLS-25²	5-poles - 25mm²	WK 250	460 535 01	1/1

HandyQuick - 1,5²

Screwless connecting terminal for single-wire conductors acc. DIN EN 60998 (VDE 0613), U_i=400 V

Description		Order No.	Packing Qty
HandyQuick SQ 31	light grey, 3 x 0.75-1.5 mm²	688 310 01	2000/100
Handy Quick SQ51	light grey, 5 x 0.75-1.5 mm²	688 510 01	2000/100
Handy Quick SQ81	light grey, 8 x 0.75-1.5 mm²	688 810 01	2000/100

HandyQuick - 2,5²

Screwless connecting terminal for single-wire conductors acc. DIN EN 60998 (VDE 0613), U_i=400 V

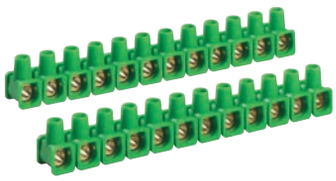
HandyQuick SQ 32	dark grey, 3 x 1.0-2.5 mm²	688 320 01	2000/100
HandyQuick SQ 52	dark grey, 5 x 1.0-2.5 mm²	688 520 01	2000/100

HandyClip - 2,5²

Combinable single terminals, rated cross-section 2.5 mm², fingerproof, U_i=250 V

HandyClip VC 20 open on both sides as terminal	686 020 01	100/1
HandyClip VC 21 closed on one side as individual terminal	686 021 01	100/1

HandyGrip - 2,5²



12-pole screw terminal, rated cross-section 2.5 mm², U_i=400 V

HandyGrip VG 20	sorted according to colour	685 020 01	250/1
HandyGrip VG 21	closed on one side, sorted according to colour	685 021 01	250/1
HandyGrip VG 20 w	white	685 120 01	250/1
HandyGrip VG 21 w	closed on one site, white	685 121 01	250/1

Cable glands

IP68

Description: Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/mm	Sealing area/mm	Order No.	Packing Qty
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses	Sealing area/mm	Order No.	Packing Qty
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

WKE - maintaining electrical function

Connecting - Protecting - Distributing

- **WKE AK 14-70**
- **Fire load insulation against fires starting inside the enclosure**
- **Circuits continue to function with a fire outside the enclosure**
- **IP65 / 400V**
- **14-70 distribution units**
- **Free scope for planning subject to the guidelines for low-voltage switchgear**

- **WKE Serie 2 - 5**
- **External mounting brackets for quick installation**
- **Completely pre-assembled**
- **Upgradable to IP65**
- **Ideal for building installations**

- **WKE 54**
- **Fuse-protected branch**
- **Double clamp 16²**
- **Sturdy enclosure**
- **Ideal for use in tunnels and industrial settings**

- **WKE 200 - 400**
- **Fused branch with circuit integrity under fire conditions**
- **Clamping area up to 35²**
- **Especially sturdy**
- **Ideal for time and material savings in building installation planning**

Maintaining electrical function
Content

	Protection	max. nominal cross section	Types	Page
	IP54/65	**16 mm²**	WKE 2 - 5	62-69
	IP67	**16 mm²**	WKE 54 / WKE 54 FR	70-71
	IP66	**35 mm²**	WKE 200 - 400 RK	72-79
	IP66	**6 mm²**	WKE 404, 414, 424 KE	80-83
	IP65	-	WKE AK 14-70	84-87

WKE 2 - 5

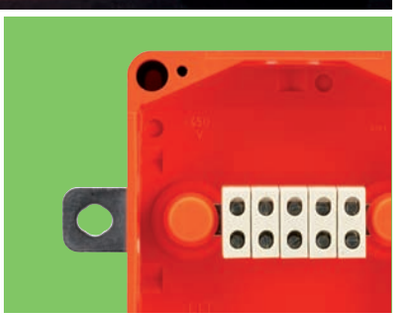
Connecting - Protecting - Distributing

IP65 IP54 | E30-E90 | FE180 | F400 | 6-16² | IK05 | 450V AC | halogen-free

- Extensive range of accessories such as rawlplugs and attachment bushes for all our junction boxes

- Maintaining electrical function can save lives

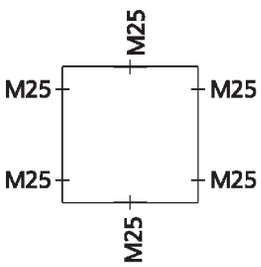
- Approved by MPA NRW



- The right solution for every cross-section and application

WKE 2 - 5 x 6²

100 x 100 x 50 mm



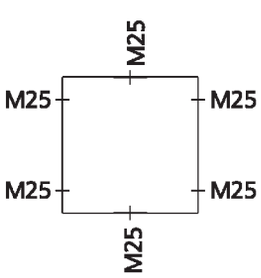
Description	Order No.	Packing Qty
Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

IP65 IP54 | E30-E90 | FE180 | F400 | 6² | 450V AC | halogen-free

WKE 2 - 5 x 6² Connection box 5-pole 0.5 - 6 mm² Junction box 5-pole 0.5 - 1.5 mm² Number of conductors per clamping point: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5² / 2 x 4² / 2 x 6² Accessories supplied: Drilling template; wall + ceiling attachment set D6, 4 attachment bushes M25, seal range 9 - 18.5 mm, 1 blanking plug M25, seal range 9 - 18.5 mm	860 502 01	12/1

WKE 2 - 3 x 10²

100 x 100 x 50 mm



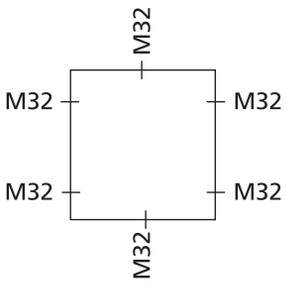
Description	Order No.	Packing Qty
Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

IP65 IP54 | E30-E90 | FE180 | F400 | 10² | 450V AC | halogen-free

WKE 2 - 3 x 10² Connection box 3-pole 1 - 10 mm² Junction box 3-pole 1 - 4 mm² Number of conductors per clamping point: 10 x 1² / 8 x 1.5² / 6 x 2.5² / 4 x 4² / 2 x 6² / 2 x 10² Accessories supplied: Drilling template; wall + ceiling attachment set D6, 4 attachment bushes M25, seal range 9 - 18.5 mm, 1 blanking plug M25, seal range 9 - 18.5 mm	860 512 01	12/1

WKE 3 - 5 x 10²

115 x 115 x 66 mm



Description	Order No.	Packing Qty

Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6

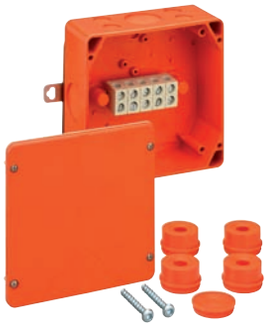
IP65 IP54 | E30-E90 | FE180 | F400 | 10² | 450V AC | halogen-free

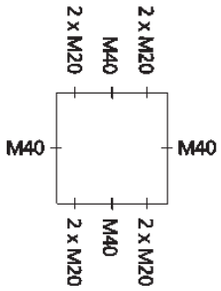
WKE 3 - 5 x 10² — 860 503 01 — 10/1

Connection box 5-pole 1 - 10 mm²
Junction box 5-pole 1 - 4 mm²
Number of conductors per clamping point:
10 x 1² / 8 x 1.5² / 6 x 2.5² / 4 x 4² / 2 x 6² / 2 x 10²
Accessories supplied:
Drilling template; wall + ceiling attachment set D6,
4 attachment bushes M32, seal range 13 - 23 mm,
1 blanking plug M32, seal range 13 - 23 mm

WKE 4 - 5 x 16²

165 x 165 x 76 mm





Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6

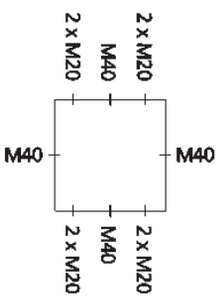
IP65 IP54 | E30-E90 | FE180 | F400 | 16² | 450V AC | halogen-free

WKE 4 - 5 x 16² — 860 504 01 — 6/1

Connection box 5-pole 1.5 - 16 mm²
Junction box 5-pole 1.5 - 6 mm²
Number of conductors per clamping point:
10 x 1.5² / 8 x 2.5² / 4 x 4² / 4 x 6² / 2 x 10² / 2 x 16²
Accessories supplied:
Drilling template; wall + ceiling attachment set D6,
4 attachment bushes M40, seal range 17 - 30 mm,
1 blanking plug M40, seal range 17 - 30 mm

WKE 4 - 8 x 6²

165 x 165 x 76 mm



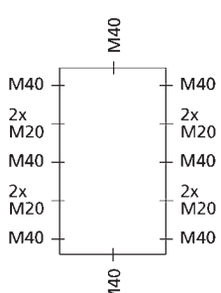
Description	Order No.	Packing Qty
Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

IP65 IP54 | E30-E90 | FE180 | F400 | 6² | 450V AC | halogen-free

WKE 4 - 8 x 6² Connection box 8-pole 0.5 - 6 mm² Junction box 8-pole 0.5 - 1.5 mm² Number of conductors per clamping point: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5² / 2 x 4² / 2 x 6² Accessories supplied: Drilling template; wall + ceiling attachment set D6, 4 attachment bushes M40, seal range 17 - 30 mm, 2 double end connectors M40, seal range 8 - 13 mm, 1 blanking plug M20, seal range 8 - 13 mm, 1 blanking plug M40, seal range 17 - 30 mm	860 514 01	6/1

WKE 5 - 15 x 6²

171 x 256 x 106 mm



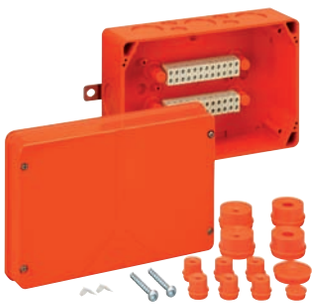
Description	Order No.	Packing Qty
Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

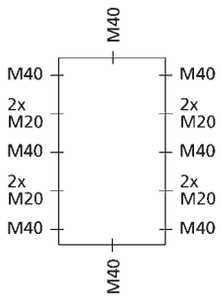
IP65 IP54 | E30-E90 | FE180 | F400 | 6² | 450V AC | halogen-free

WKE 5 - 15 x 6² Connection box 15-pole 0.5 - 6 mm² Junction box 15-pole 0.5 - 1.5 mm² Number of conductors per clamping point: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5² / 2 x 4² / 2 x 6² Accessories supplied: Drilling template; wall + ceiling attachment set D6, 6 attachment bushes M20, seal range 8 - 13 mm, 2 double end connectors M40, seal range 17 - 30 mm, 1 blanking plug M20, seal range 8 - 13 mm, 1 blanking plug M40, seal range 17 - 30 mm	860 505 01	6/1

WKE 5 - 20 x 6²

171 x 256 x 106 mm





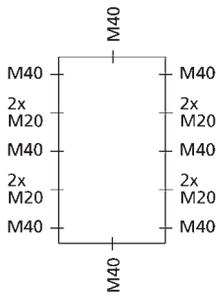
Description	Order No.	Packing Qty
Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

IP65 IP54 | E30-E90 | FE180 | F400 | 6² | 450V AC | halogen-free

WKE 5 - 20 x 6² Connection box 2 x 10-pole 0.5 - 6 mm² Junction box 2 x 10-pole 0.5 - 1.5 mm² Number of conductors per clamping point: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5² / 2 x 4² / 2 x 6² Accessories supplied: Drilling template; wall + ceiling attachment set D6, 6 attachment bushes M20, seal range 8 - 13 mm, 2 double end connectors M40, seal range 17 - 30 mm 1 blanking plug M20, seal range 8 - 13 mm, 1 blanking plug M40, seal range 17 - 30 mm	860 505 20	6/0

WKE 5 - 24 x 6²

171 x 256 x 106 mm



Cable junction and connection box with IP54 / 65 certified acc. EN 60670, with electrical functional integrity E30 – E90 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

IP65 IP54 | E30-E90 | FE180 | F400 | 6² | 450V AC | halogen-free

WKE 5 - 24 x 6² Connection box 2 x 12-pole 0.5 - 6 mm² Junction box 2 x 12-pole 0.5 - 1.5 mm² Number of conductors per clamping point: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5² / 2 x 4² / 2 x 6² Accessories supplied: Drilling template; wall + ceiling attachment set D6, 6 attachment bushes M20, seal range 8 - 13 mm, 2 double end connectors M40, seal range 17 - 30 mm, 1 blanking plug M20, seal range 8 - 13 mm, 1 blanking plug M40, seal range 17 - 30 mm	860 505 24	6/0

Sealing plug

IP54

Description: Sealing plug with closed sealing membrane, no lock nuts required, for panel thickness 1.5 - 4.0mm

	Sealing area/mm	Order No.	Packing Qty
VST M20-or	8 - 13.5	231 620 01	1200/100
VST M25-or	9 -16	231 625 01	600/50
VST M32-or	13 - 23	231 632 01	600/50
VST M40-or	17 - 30	231 640 01	300/25

Combi connector

IP54

Adapters with open sealing membrane, for panel thickness 1.5 - 4.0mm

	Sealing area/mm		
AST M20-or	8 - 13.5	230 620 01	600/50
AST M25-or	9 -16	230 625 01	300/50
AST M32-or	13 - 23	230 632 01	150/25
AST M40-or	17 - 30	230 640 01	120/20

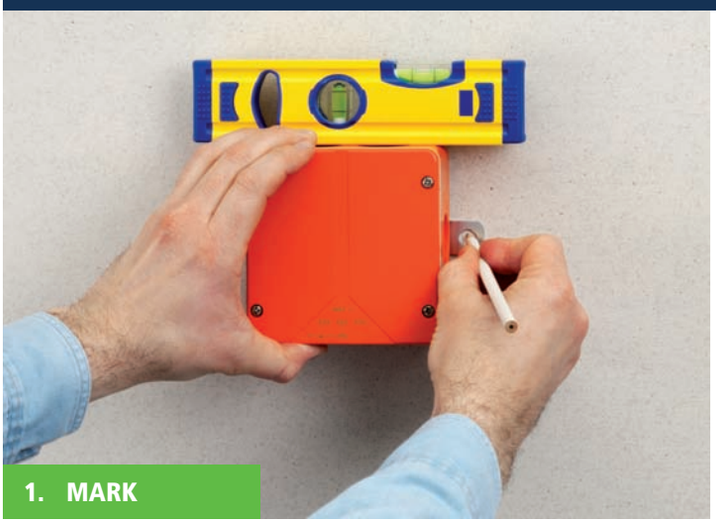
Cable glands

IP68

Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/mm	Sealing area/mm		
KVR M20-MGM/or	9	6 - 12.0	227 620 01	300/50
KVR M25-MGM/or	11	7 - 16.0	227 625 01	150/25
KVR M32-MGM/or	11	11 - 21.0	227 632 01	60/10
KVR M40-MGM/or	11	16 - 28.0	227 640 01	30/5

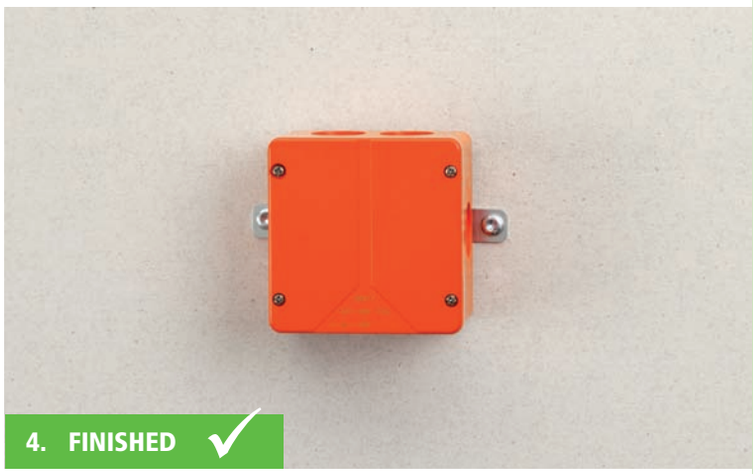
WKE 2-5 installation... time savings of at least 50%



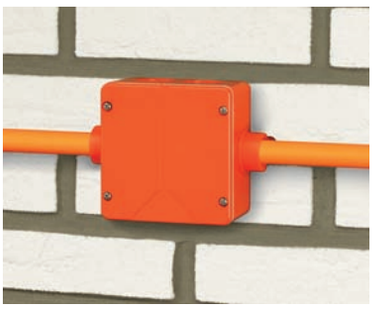
1. **MARK**

2. **DRILL** (Ø 6 mm)

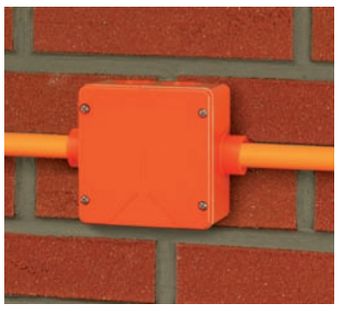
3. **SCREW**



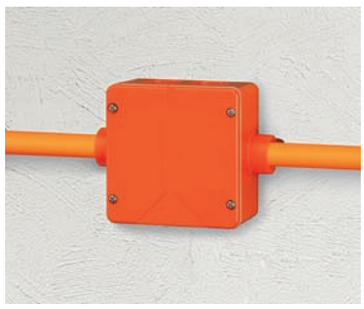
4. **FINISHED** ✓



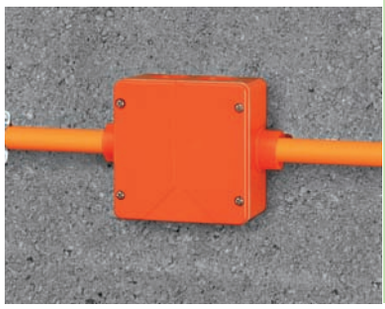
· **sand-lime bricks**



· **brick**



· **breeze block**



· **concrete**

The D6 attachment set is approved for installations in cracked and uncracked concrete as well as for numerous other building materials such as: clinker bricks, natural stone (such as marble), sand-lime bricks, hollow concrete blocks, solid bricks

E30-E90 **Maintaining electrical function**

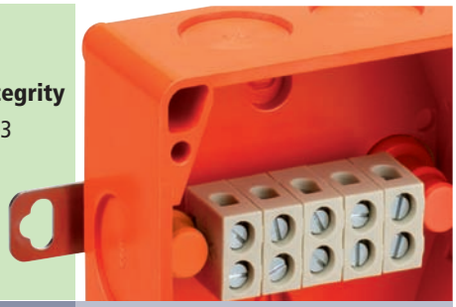
on the basis of DIN 4102 part 12
- E stands for maintaining electrical function
- 30-90 represents the duration in minutes

FE180 **Insulation integrity**

on the basis of IEC 60331
- FE stands for flame or fire effects
- 180 for the time in minutes

F400 **Functional integrity**

as specified in EN 12101-3
- function maintained for 120 minutes at 400°C



Maintaining electrical function

Clamping area Screwed cable gland

		Nm
M 12 x 1,5	4 - 6,5	2
M 16 x 1,5	4 - 10	2,5
M 20 x 1,5	6 - 12	4
M 20 x 1,5	7 - 14	4
M 25 x 1,5	9 - 16	6
M 32 x 1,5	11 - 21	7
M 40 x 1,5	16 - 28	7,5

Screwed cable gland **Clamping area** **Nm** **Torque rating**

Number of conductors that can be clamped for each pole:

	WKE 6² 0,8 Nm		WKE 10² 1,2 Nm		WKE 16² 2,0 Nm		WKE 16² 2,0 Nm	
0,5²	8	4						
0,75²	4	2						
1,0²	6	3	10	5				
1,5²	6	3	8	4	10	5	20	5
2,5²	2	1	6	3	8	4	16	4
4²	2	1	4	2	6	3	12	3
6²	2	1	2	1	4	2	8	2
10²			2	1	2	1	4	1
16²					2	1	4	1

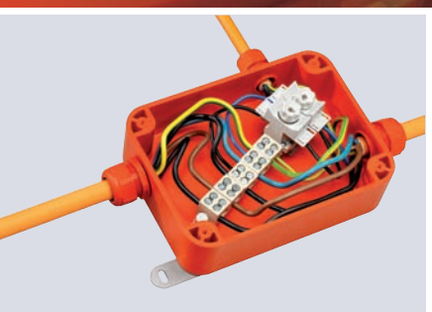
Cable cross-section

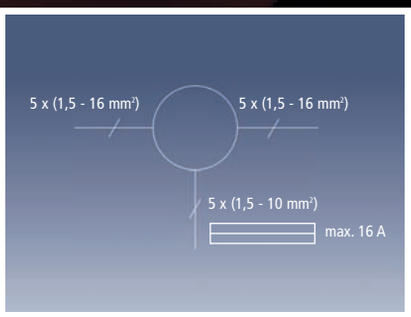
Single terminal, 2 clamping points
Terminal clamping point
Double terminal, 4 clamping points

WKE 54 / WKE 54 FR

IP67 | E90 | FE180 | F400 | 16² | IK07 | 690V AC | halogen-free | Industrial quality

IP67 | CSTB 65 | 16² | IK07 | 690V AC | halogen-free | Industrial quality





E90 maintaining electrical function

- compliant with DIN 4102 part 12
- Over 90 minutes functional integrity of the electrical system
- Tested by MPA Dresden

IP67 Ingress protection rating

- Compliant with DIN EN 60670
- No ingress of dust
- Protection against temporary immersion in water, Degree of protection IK07
- Compliant with VDE 0470 part 100; EN 50102 Protection against external mechanical impact

Pressure and suction resistance

- Testing according to the Safety Lighting Installations for Rail Tunnels specifications in Germany

Maintaining electrical function means that a fire does not result in a short-circuit or an interruption of current in the electrical cable system.
The following components comply with DIN 4102 part 12: power lines, installation cables and lines, busways, cable ducts, coatings, sheathing and the necessary connecting elements, supporting structures and fastenings. Lines are always tested as complete systems, by test laboratories approved by the German Institute for Building Technology (DiBt).

WKE 54
278 x 208 x 107 mm

Description	Order No.	Packing Qty
Junction and connection box with IP66 / 67 certified compliant with EN 60670, with electrical function rating E30 – E90 as per DIN 4102 Part 12, insulation rating FE 180 as per IEC 60331-11 and functional life F400 as per EN 12101, halogen-free housing made of special duroplastic, terminals made of a high-temperature-resistant special ceramic, rapid mounting thanks to external brackets and wall + ceiling attachment set D6		

IP67 | E30-E90 | FE180 | F400 | 16² | 690V AC | halogen-free | DVE

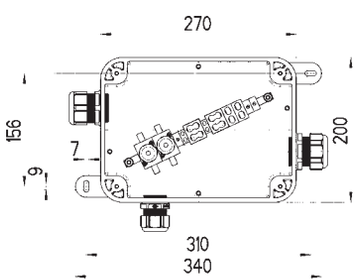
WKE 54 WKE 54 5 x 16² double terminal, to be used as a junction box with fused branch, Connection box 5-pole 1.5 - 16 mm² Junction box 5-pole 1.5 - 10 mm² Number of conductors per clamping point: 20 x 1.5² / 16 x 2.5² / 12 x 4.0² / 8 x 6² / 4 x 10² / 4 x 16², 2 fuse bases D01 max. 16 A, 2 pieces cable glands M40, Seal range 16 - 28 mm, 1 piece cable gland M32, seal range 11 - 21 mm, accessories supplied: Wall + ceiling attachment set D6	860 254 01	12/1

WKE 54 FR
278 x 208 x 107 mm

Cable junction and connection box with IP67 certified acc. EN 60670, with electrical functional over minimum 65 Minuten acc.NF C 32-070, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6

IP67 | CSTB 65 | 16² | IK07 | 690V AC | halogen-free

WKE 54 FR Junction box with fused branch Continuity 5-poles 1.5 - 16 mm² Branch 2-poles 1,5 - 10 mm² Protection 2 piece fuse socket D01 max. 16 A 2 piece thermal fuse 70° Number of conductors per clamping point: 10 x 1.5² / 8 x 2.5² / 4 x 4² / 4 x 6² / 2 x 10² / 2 x 16² Accessories supplied: 2 pieces cable glands M40, seal range 16 - 28 mm 1 piece cable gland M32, seal range 11 - 21 mm	860 254 02	12/1



Maintaining electrical function

WKE 200 - 400 RK

Connecting - Protecting - Distributing

IP66 | E30 | FE180 | F400 | 35² | IK08 | 450V AC | halogen-free

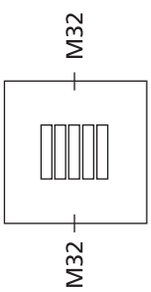
- State-tested by the MPA NRW
- Current test certificate available online

www.spelsberg.com

- Extensive range of accessories such as rawlplugs and screw connections for all our junction boxes
- The right solution for every cross-section and application
- External mounting brackets for quick installation

WKE 202 RK

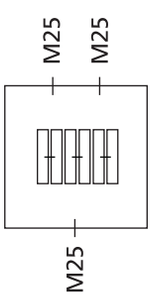
115 x 115 x 93 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 6² · 450V AC · halogen-free		
WKE 202 RK Junction box, 5-pole, termination capability per pole 2 x 0.5 - 6 mm², accessories supplied: Wall plug set Ø 6 mm, 2 cable glands M32, seal range 17 - 26 mm	862 202 01	1/1

WKE 203 RK

115 x 115 x 93 mm

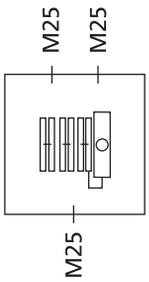


Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 4² · 450V AC · halogen-free		
WKE 203 RK Junction box, 3-pole, termination capability per pole 4 x 0.5 - 4 mm², accessories supplied: Wall plug set Ø 6 mm, 3 cable glands M25, seal range 6 - 15 mm	862 203 01	1/1

Maintaining electrical function

WKE 204 RK

115 x 115 x 93 mm



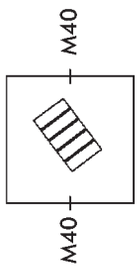
Cable junction and connection box with IP66 certified acc. EN 60670,
with electrical functional integrity E30 acc. DIN 4102 Part 12,
with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101,
housing and terminal blocks made from halogen-free special duroplastic

IP66 | E30 | FE180 | F400 | 4² | 450V AC | halogen-free

Description	Order No.	Packing Qty
WKE 204 RK Junction box with fused E30 branch, 3-pole, termination capability for each pole, 3-pole in fused E30 branch, termination capability per pole 1 x 0.5 - 4 mm², fuse (20 x to 5 mm) max. 6.3A, accessories supplied: Wall plug set Ø 6 mm, 3 cable glands M25, seal range 6 - 15 mm	862 204 01	1/1

WKE 302 RK

160 x 160 x 110 mm



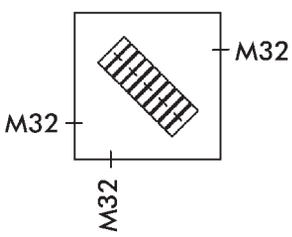
Cable junction and connection box with IP66 certified acc. EN 60670,
with electrical functional integrity E30 acc. DIN 4102 Part 12,
with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101,
housing and terminal blocks made from halogen-free special duroplastic

IP66 | E30 | FE180 | F400 | 6² | 450V AC | halogen-free

Description	Order No.	Packing Qty
WKE 302 RK Junction box, 5-pole, termination capability per pole 2 x 0.5 - 6 mm², accessories supplied: Wall plug set Ø 6 mm, 2 cable glands M40, seal range 17 - 26 mm	862 302 01	1/1

WKE 303 RK

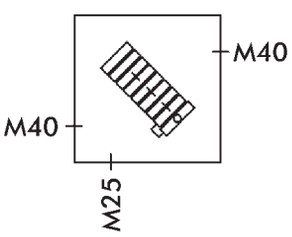
160 x 160 x 110 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 10^2 · 450V AC · halogen-free · Maintaining electrical function		
WKE 303 RK Junction box, 5-pole, termination capability per pole 4 x 2.5 - 10 mm², accessories supplied: Wall plug set Ø 6 mm, 3 cable glands M32, seal range 17 - 26 mm	862 303 01	1/1

WKE 304 RK

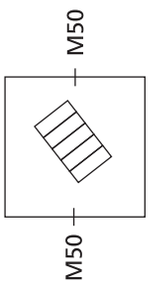
160 x 160 x 110 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 10^2 · 450V AC · halogen-free · Maintaining electrical function		
WKE 304 RK Junction box with fused E30 branch, 5-pole, termination capability for each pole, 3-pole in fused E30 branch, termination capability per pole 1 x 1.5 - 10 mm², fuse (20 x to 5 mm) max. 6.3A, accessories supplied: Wall plug set Ø 6 mm, 2 cable glands M40, seal range 17 - 27 mm, 1 cable gland M25, seal range 6 - 15 mm	862 304 01	1/1

WKE 402 RK

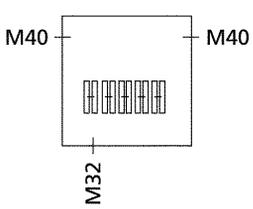
200 x 200 x 110 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 16² · 450V AC · halogen-free		
WKE 402 RK Junction box, 5-pole, termination capability per pole 2 x 2.5 - 16 mm², accessories supplied: Wall plug set Ø 6 mm, 2 cable glands M50, seal range 23 - 34 mm	862 402 01	1/1

WKE 403 RK

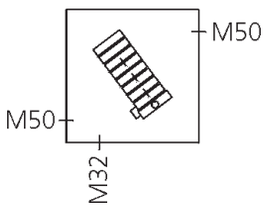
200 x 200 x 110 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 16² · 450V AC · halogen-free		
WKE 403 RK Junction box, 5-pole, termination capability per pole 4 x 4 - 16 mm², accessories supplied: Wall plug set Ø 6 mm 2 cable glands M40, seal range 17 - 27 mm, 1 cable gland M32, seal range 17 - 26 mm	862 403 01	1/1

WKE 404 RK

200 x 200 x 110 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. DIN 4102 Part 12, with isolation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, housing and terminal blocks made from halogen-free special duroplastic		
IP66 · E30 · FE180 · F400 · 35² · 450V AC · halogen-free		
WKE 404 RK Junction box with fused E30 branch, 5-pole in transition area, termination capability for each pole 2 x 2.5 - 35 mm², 3-pole in fused E30 branch, termination capability per pole 1 x 1.5 - 10 mm², fuse (20 x to 5 mm) max. 6.3A, accessories supplied: Wall plug set Ø 6 mm, 2 cable glands M50, seal range 23 - 34 mm, 1 cable gland M32, seal range 17 - 26 mm	862 404 01	1/1

Maintaining electrical function

Planning aid WKE

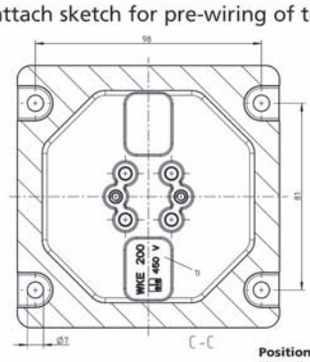
WKE 200 Assembly of entries and terminals

Construction project: _____

Customer: _____

If required, please attach sketch for pre-wiring of terminal!

115 x 115 x 93 mm

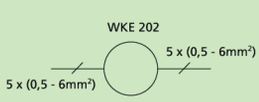


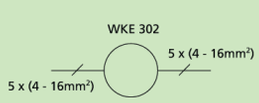
Please mark threaded holes accordingly
M20 / M25 / M32 / M40 / M50

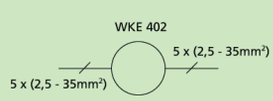
Position of the Din rail
The rail can be fixed in 5 different positions horizontally and diagonally. Please mark accordingly!

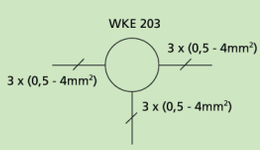
Outer diameter of the cables:	_____	mm
Cross-section of the wire:	_____	mm²
Cross-section of the terminals:	_____	mm²
Cross connector:	_____	pieces
Qty of terminals:	_____	pieces
External fixing lugs:	☐ 2 pieces ☐ 4 pieces	
Dowel WKE V4A	☐ 4 pieces	
Required quantity:	_____	pieces

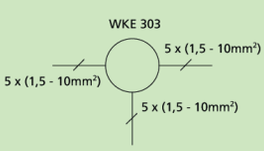
Attention; cable glands and external fixing lugs are enclosed just like in standard parts.

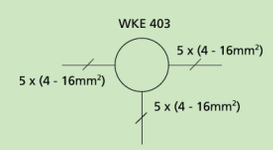


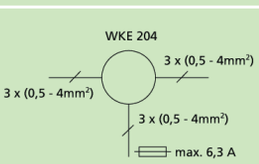


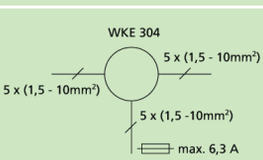


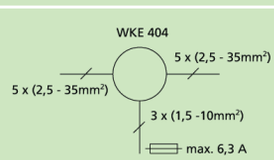












E30-E90 **Maintaining electrical function**

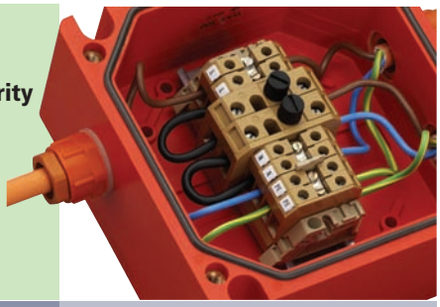
on the basis of DIN 4102 part 12
- E stands for maintaining electrical function
- 30-90 represents the duration in minutes

FE180 **Insulation integrity**

on the basis of IEC 60331
- FE stands for flame or fire effects
- 180 for the time in minutes

F400 **Functional integrity**

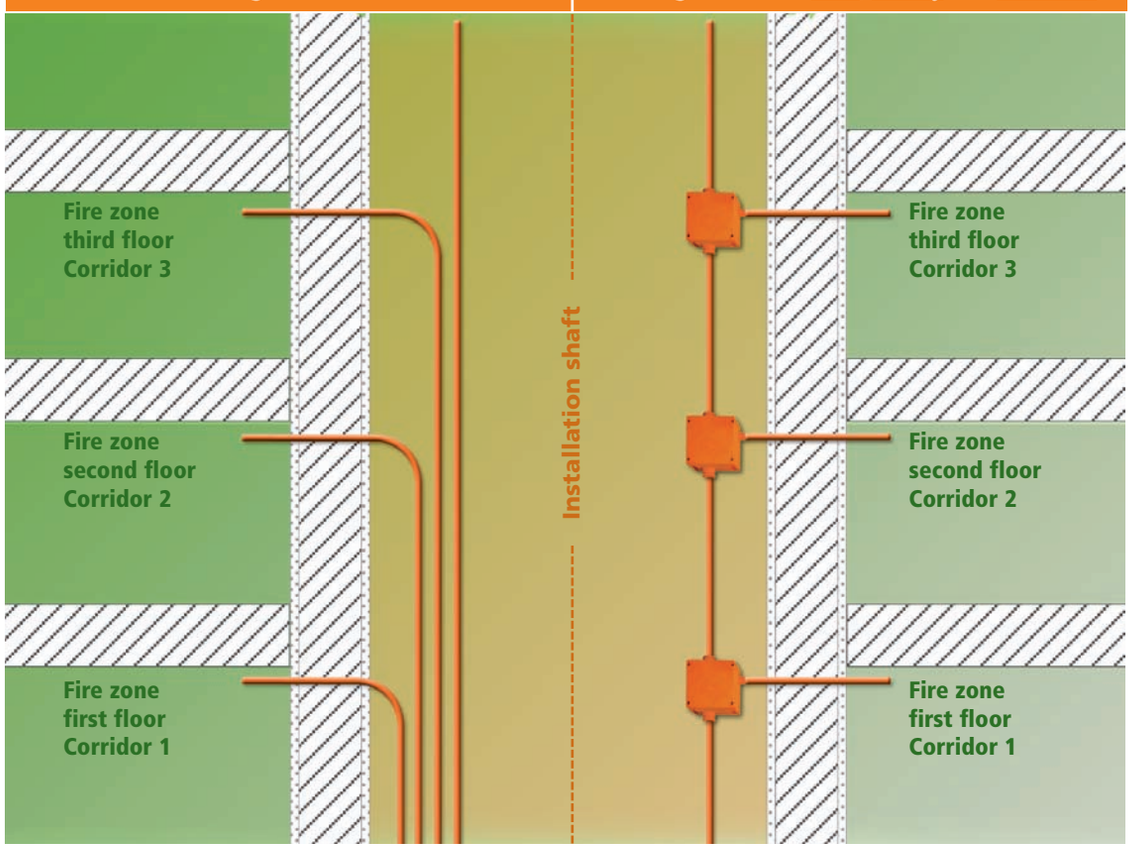
as specified in EN 12101-3
- function maintained for 120 minutes at 400°C



Maintaining electrical function

Cabling scheme WKE 200-400 RK

Standard cabling | **Cabling that saves time, money and materials**



- 0,5² bis 35²
- Protection class IP66
- 6.3 A fuse
- Particularly robust quality
- High impact strength
- Circuit integrity to class E30 as per DIN 4102 part 12
- Circuit integrity for the fused branch
- Halogen-free duroplastic housing
- Can be sealed
- Delivered as complete package including accessories
- MPA test certificate
- VDE approved
- Colour similar to RAL 2004
- Terminal blocks and fuse terminals made of duroplastic

Clamping area Screwed cable gland

		Nm
M 20 x 1,5	6 - 13	4
M 25 x 1,5	6 - 15	6
M 25 x 1,5	9 - 19	6
M 32 x 1,5	17 - 26	7
M 40 x 1,5	17 - 27	7,5
M 50 x 1,5	23 - 34	7,5

Screwed cable gland

Clamping area

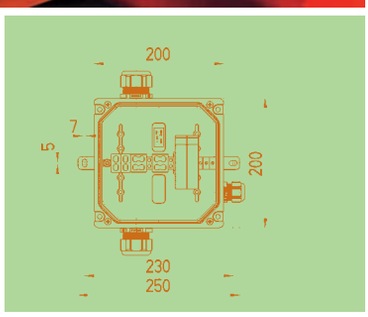
Nm

Torque rating

WKE 404, 414, 424 KE

Connecting - Protecting - Distributing

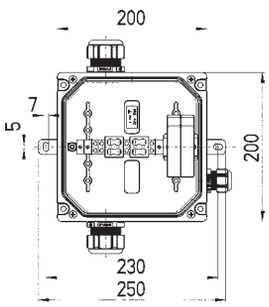
IP66 | CSTB 65 | 6² | IK 08 | 450V AC | halogen-free



- **Officially certified by CSTB France according to NF C 32 - 70**
- **Current test reports on request**
- **Retained functionality up to 65 minutes and 920°C according to NF C 32-070**
- **Branch protected by thermal fuse 70°C**
- **Especially sturdy enclosures**
- **External mounting brackets for quick installation**
- **Fully fitted and assembled housings**

WKE 404 KE

200 x 200 x 110 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional over minimum 65 minutes acc.NF C 32-070, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting by external brackets		

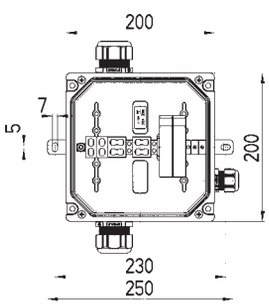
IP66 | CSTB 65 | 6² | IK08 | 450V AC | halogen-free

WKE 404 KE — 861 404 01 — 2/1

Junction box with fused branch
Continuity 5-poles 0.5 - 6 mm²
Branch 2-poles 0.5 - 6 mm²
Protection 1 piece fuse socket D01 max. 32 A
2 piece thermal fuse 70°
Number of conductors per clamping point:
8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5² / 2 x 4² / 2 x 6²
Accessories supplied:
2 pieces cable glands M40, seal range 16 - 28 mm
1 piece cable gland M25, seal range 9 - 16 mm

WKE 414 KE

200 x 200 x 110 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional over minimum 65 minutes acc.NF C 32-070, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting by external brackets		

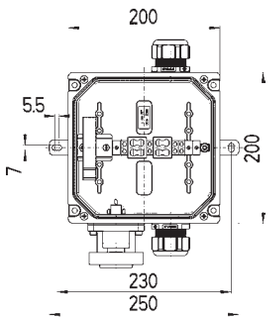
IP66 | CSTB 65 | 16² | IK08 | 450V AC | halogen-free

WKE 414 KE — 861 414 01 — 10/1

Junction box with fused branch
Continuity 5-poles 1.5 - 16 mm²
Branch 2-poles 0.5 - 6 mm²
Protection 1 piece fuse socket D01 max. 32 A
2 piece thermal fuse 70°
Number of conductors per clamping point:
10 x 1.5² / 8 x 2.5² / 4 x 4² / 4 x 6² / 2 x 10² / 2 x 16²
Accessories supplied:
2 pieces cable glands M40, Seal range 16 - 28 mm
1 piece cable gland M25, seal range 9 - 16 mm

WKE 424 KE

200 x 200 x 110 mm



Description	Order No.	Packing Qty
Cable junction and connection box with IP66 certified acc. EN 60670 with electrical functional over minimum 65 minutes acc.NF C 32-070, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting by external brackets		

IP65 | CSTB 65 | 16² | IK08 | 450V AC | halogen-free

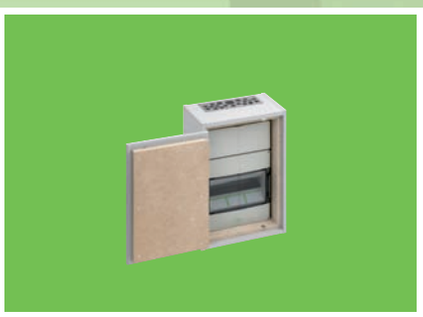
WKE 424 KE Junction box with Socket outlet 16A Continuity 5-poles 1.5 - 16 mm² Branch 2-poles 0.5 - 6 mm² Protection 1 piece fuse socket D01 max. 32 A 2 piece thermal fuse 70° Number of conductors per clamping point: 10 x 1.5² / 8 x 2.5² / 4 x 4² / 4 x 6² / 2 x 10² / 2 x 16² Accessories supplied: 2 pieces cable glands M40, seal range 9 - 16 mm 1 piece cable gland M25, seal range 16 - 28 mm	861 424 01	10/1

WKE AK 14 - 70

Connecting - Protecting - Distributing

IP65 | 90 | 90 | 14-70 | IK10 | 400V AC | halogenfrei

Industrial quality



- VDE tested for compliance with EN 61 439-2
- Individually configurable with type-tested components

- Tested compliant with EN 1363-1 by MPA Dresden
- Fire load insulation EI90 (based on I90) to protect escape and rescue routes as per MLAR 2005

- Circuit integrity rating EI90 to protect electrical installations as per MLAR 2005

- Enclosures for every application
- Tested by VDE and MPA
- With up to 14 units per switch row

WKE AK 14
400 x 540 x 230 mm

Description	Order No.	Packing Qty
WKE AK small-scale distributors, VDE certificated compliant with EN 61 439 Part 2, VDE tested and certified under specific operating conditions to be compliant with EN 61 439 2 paragraph 7.2, Tested compliant with EN 13501 Part 2 by MPA Dresden, fire load insulation EI 90 for protection of escape and rescue routes according to MLAR 2005, EI 90 maintained electrical function for protection of electrical equipment according to MLAR 2005, configurable with type-tested components		
WKE AK 14 WKE AK 14 small-scale distributor - **I**ndustrial **Q**uality 1-row, 14 modules, U_i=400V, screwless PE/N terminal rails each with 3 screwable clamping points, elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories	865 414 01	1/1

WKE AK 28
400 x 690 x 230 mm

Description	Order No.	Packing Qty
WKE AK small-scale distributors, VDE certificated compliant with EN 61 439 Part 2, VDE tested and certified under specific operating conditions to be compliant with EN 61 439 2 paragraph 7.2, Tested compliant with EN 13501 Part 2 by MPA Dresden, fire load insulation EI 90 for protection of escape and rescue routes according to MLAR 2005, EI 90 maintained electrical function for protection of electrical equipment according to MLAR 2005, configurable with type-tested components		
WKE AK 28 WKE AK 28 small-scale distributor - **I**ndustrial **Q**uality 2-row, 28 modules, U_i=400V, 150 mm rail spacing, 21 screwless clamping points 1.5 mm² - 4 mm², with cable covering, masking and labelling strips, additional double-membrane seals and other accessories	865 428 01	1/1

Maintaining electrical function

WKE AK 42
400 x 840 x 230 mm

Description	Order No.	Packing Qty
WKE AK small-scale distributors, VDE certificated compliant with EN 61 439 Part 2, VDE tested and certified under specific operating conditions to be compliant with EN 61 439 2 paragraph 7.2, Tested compliant with EN 13501 Part 2 by MPA Dresden, fire load insulation EI 90 for protection of escape and rescue routes according to MLAR 2005, EI 90 maintained electrical function for protection of electrical equipment according to MLAR 2005, configurable with type-tested components		
WKE AK 42 WKE AK 42 small-scale distributor - **I**ndustrial **Q**uality 3-row, 42 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories	865 442 01	1/1

WKE AK 56
400 x 990 x 230 mm

WKE AK small-scale distributors, VDE certificated compliant with EN 61 439 Part 2, VDE tested and certified under specific operating conditions to be compliant with EN 61 439 2 paragraph 7.2, Tested compliant with EN 13501 Part 2 by MPA Dresden, fire load insulation EI 90 for protection of escape and rescue routes according to MLAR 2005, EI 90 maintained electrical function for protection of electrical equipment according to MLAR 2005, configurable with type-tested components		
WKE AK 56 WKE AK 56 small-scale distributor - **I**ndustrial **Q**uality 4-row, 56 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories	865 456 01	1/1

WKE AK 70
400 x 1140 x 230 mm

Description	Order No.	Packing Qty
WKE AK small-scale distributors, VDE certificated compliant with EN 61 439 Part 2, VDE tested and certified under specific operating conditions to be compliant with EN 61 439 2 paragraph 7.2, Tested compliant with EN 13501 Part 2 by MPA Dresden, fire load insulation EI 90 for protection of escape and rescue routes according to MLAR 2005, EI 90 maintained electrical function for protection of electrical equipment according to MLAR 2005, configurable with type-tested components		
WKE AK 70 WKE AK 70 small-scale distributor - **I**ndustrial **Q**uality 5-row, 70 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories	865 470 01	1/1

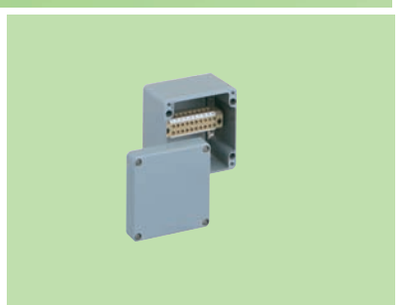
Maintaining electrical function

RK / AKi-R / ALR
Terminal block housings

RK *Compact*-Series
- IP 66
- Thermo plastic
- Can be provided with: 5 up to 22 block terminals 4 mm² as screw terminals

RK-Series
- Up to IP 66
- Thermo plastic
- Empty or fitted

RKA-Serie / AKi-R-Series
- Up to IP 65
- Thermo plastic
- Empty or fitted



ALR-Serie
- IP 66
- Aluminium Al Si 12
- Empty or fitted
- With powder coating to prevent corrosion

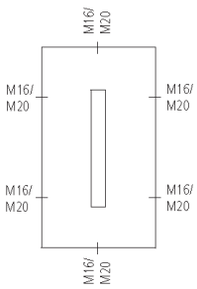
iQ - **I**ndustrial **Q**uality
All products of series that are specially designed for industrial applications and end in ***"-I"*** can be identified by the blue background.

Terminal block housings
Content

	Protection	Number of terminals	Types	Page
	IP66	**5 up to 22 x 4²**	RK *Compact*	90-93
	IP66	**7 up to 100 x 4²**	RK	94-97
	IP65	**34 up to 136 x 4²**	RKA	98-101
	IP65	**34 up to 136 x 4²**	AKi-R	98-101
	IP66	**5 up to 22 x 4²**	ALR *Compact*	102
	IP66	**Empty with NS**	ALR-L	103-104
	General accessories for terminal block housings			105

RKK 4/05

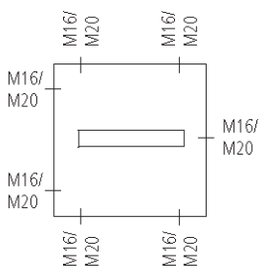
94 x 65 x 57 mm



Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 5-pole terminal block 0.2-4 mm² (screw connection), incl. 3 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/05-5x4²	605 404 01	25/5

RKK 4/07
RKK 4/08

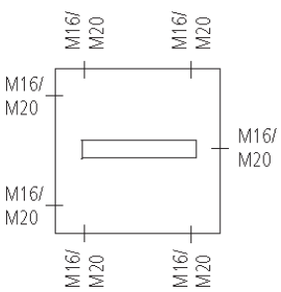
94 x 94 x 57 mm



Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 7- or 8-pole terminal block 0.2-4 mm² (screw connection), incl. 4 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/07-7x4² (with 7 pole block terminal)	600 407 01	40/4
RKK 4/08-8x4² (with 8 pole block terminal)	606 404 01	40/4

RKK 4/10

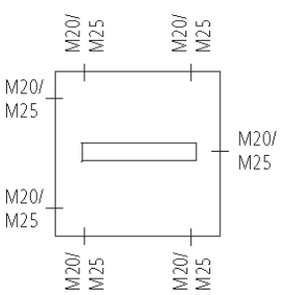
94 x 94 x 57 mm



Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 10-pole terminal block 0.2-4 mm² (screw connection), incl. 4 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/10-10x4²	607 404 01	40/4

RKK 4/12

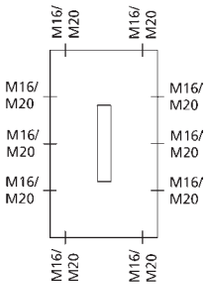
110 x 110 x 66 mm



Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 12-pole terminal block 0.2-4 mm² (screw connection), incl. 4 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/12-12x4²	610 404 01	21/3

RKK 4/12 XL

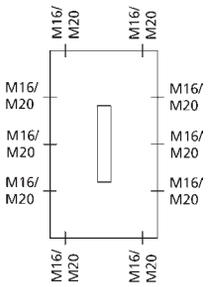
130 x 94 x 57 mm



Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 12-pole terminal block 0.2-4 mm² (screw connection), incl. 6 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/12 XL-12x4²	600 412 01	30/3

RKK 4/15

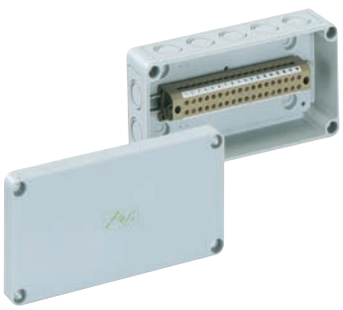
130 x 94 x 57 mm

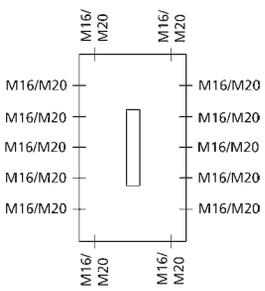


Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 15-pole terminal block 0.2-4 mm² (screw connection), incl. 6 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/15-15x4²	612 404 01	30/3

RKK 4/18

180 x 94 x 57 mm

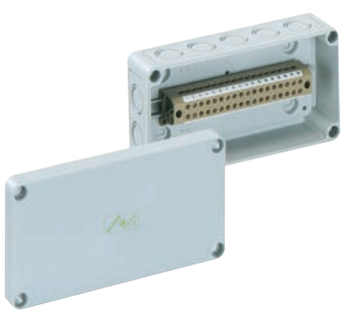


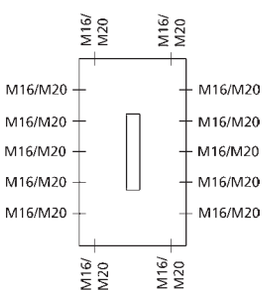


Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 18-pole terminal block 0.2-4 mm² (screw connection), incl. 6 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/18-18x4²	600 418 01	14/2

RKK 4/22

180 x 94 x 57 mm

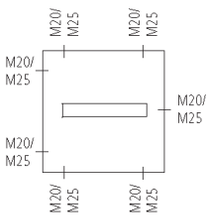




Description	Order No.	Packing Qty
Terminal block housing, flat design, Polystyrene, grey, similar to RAL 7035, equipped with 22-pole terminal block 0.2-4 mm² (screw connection), incl. 6 attachment bushes M20, seal range 8 - 13.5 mm, IP54		
IP66 IP54 · 4² · IK07 · 400V AC · halogen-free		
RKK 4/22-22x4²	614 404 01	14/2

RK 4/07

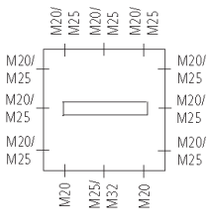
110 x 110 x 90 mm



Description	Order No.	Packing Qty
Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 4 attachment bushes M20, seal range 8 - 13.5 mm, IP54, 1 adapter M25, seal range 9 - 18.5 mm, IP54		
IP66 IP54 IK07		
RK 4/07-L grey, without terminals	619 907 01	12/3
RK 4/07-7x4² grey, with 7 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 007 01	12/3
RK 4/07 SL-7x4² grey, with 7 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 007 01	12/3

RK 4/12

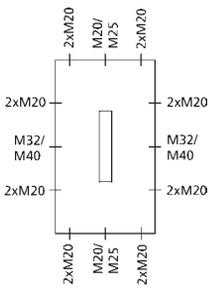
130 x 130 x 75 mm



Description	Order No.	Packing Qty
Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 4 attachment bushes M25, seal range 9 - 18.5 mm, IP54, 1 adapter M32, seal range 11 - 23 mm, IP54		
IP66 IP54 IK07		
RK 4/12-L grey, without terminals	613 906 01	14/2
RK 4/12-12x4² grey, with 12 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 012 01	14/2
RK 4/12 SL-12x4² grey, with 102 screwless terminals 4 mm²	610 012 01	14/2

RK 4/18 K

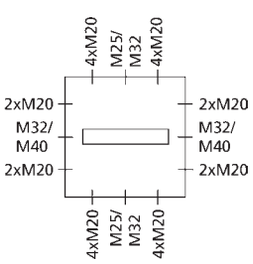
180 x 110 x 90 mm



Description	Order No.	Packing Qty
Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 8 attachment bushes M20, seal range 8 - 13.5 mm, IP54, 2 attachment bushes M25, seal range 9 - 18.5 mm, IP54, 1 adapter M32, seal range 11 - 23 mm, IP54		
IP66 IP54 IK07		
RK 4/18 K-L grey, without terminals	615 912 01	16/2
RK 4/18 K-18x4² grey, with 18 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 018 01	16/2
RK 4/18 KSL-18x4² grey, with 18 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 018 01	16/2

RK 4/18

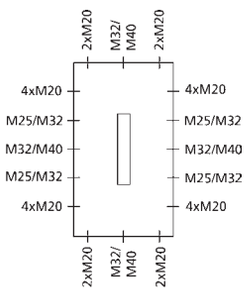
182 x 180 x 90 mm



Description	Order No.	Packing Qty
Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 8 attachment bushes M20, seal range 8 - 13.5 mm, IP54, 2 attachment bushes M25, seal range 9 - 18.5 mm, IP54, 1 adapter M32, seal range 11 - 23 mm, IP54		
IP66 IP54 IK07		
RK 4/18-L grey, without terminals	616 912 01	8/2
RK 4/18-18x4² grey, with 18 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 019 01	8/2
RK 4/18 SL-18x4² grey, with 18 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 019 01	8/2

RK 4/25

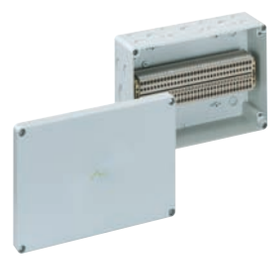
254 x 180 x 90 mm

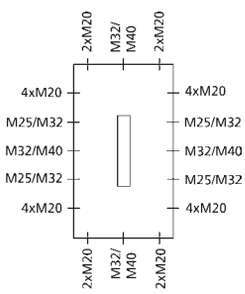


Description	Order No.	Packing Qty
Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 8 attachment bushes M20, seal range 8 - 13.5 mm, IP54, 2 attachment bushes M25, seal range 9 - 18.5 mm, IP54, 1 adapter M32, seal range 11 - 23 mm, IP54		
IP66 IP54 IK07 halogen-free		
RK 4/25-L grey, without terminals	625 916 01	8/1
RK 4/25-25x4² grey, with 25 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 025 01	8/1
RK 4/25 SL-25x4² grey, with 25 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 025 01	8/1

RK 4/34

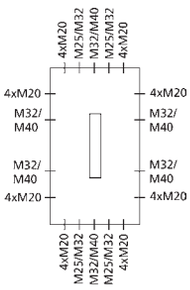
254 x 180 x 90 mm





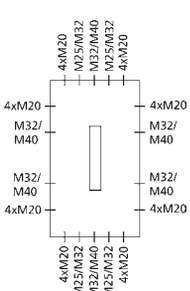
Description	Order No.	Packing Qty
Terminal block housing, with standard rails NS 35, incl. 8 attachment bushes M20, seal range 8 - 13.5 mm, IP54, 2 attachment bushes M25, seal range 9 - 18.5 mm, IP54, 1 adapter M32, seal range 11 - 23 mm, IP54		
IP66 IP54 IK07 halogen-free		
RK 4/34-L grey, without terminals	625 917 01	8/1
RK 4/34-34x4² grey, with 34 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 034 01	8/1
RK 4/34 SL-34x4² grey, with 34 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 034 01	8/1

RK 4/50
360 x 254 x 111 mm



Description	Order No.	Packing Qty
Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 18 attachment bushes M20, seal range 9 - 18.5 mm, IP54, 4 attachment bushes M32, seal range 11 - 23 mm, IP54, 2 attachment bushes M40, seal range 17 - 30 mm, IP54		
IP66 IP54 IK07 halogen-free		
RK 4/50-L grey, without terminals	616 950 01	3/1
RK 4/50-50x4² grey, with 50 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 050 01	3/1
RK 4/50 SL-50x4² grey, with 50 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 050 01	3/1

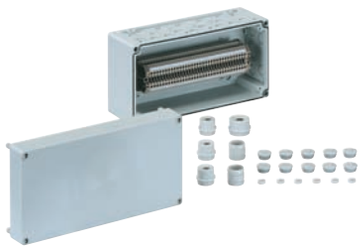
RK 4/100
360 x 254 x 111 mm



Terminal block housing, Polystyrene, grey, similar to RAL 7035, incl. 18 attachment bushes M20, seal range 8 - 13.5 mm, IP54, 2 attachment bushes M32, seal range 11 - 23 mm, IP54, 1 adapter M40, seal range 17 - 30 mm, IP54		
IP66 IP54 IK07 halogen-free		
RK 4/100-L grey, without terminals	626 922 01	3/1
RK 4/100-100x4² grey, with 100 screw terminals 4 mm², (Type Weidmüller WDU 4)	615 100 01	3/1
RK 4/100 SL-100x4² grey, with 100 screwless terminals 4 mm², (Type Weidmüller ZDU 4)	610 100 01	3/1

RKA 4/34

300 x 150 x 132 mm



Description	Order No.	Packing Qty
Terminal block housing, incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54		

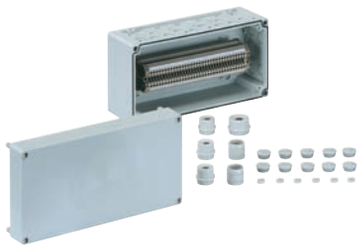
IP65 IK07

RKA 4/34-L grey, without terminals	629 901 01	1/1
RKA 4/34-34x4² grey, with 34 screw terminals 4 mm²	625 034 01	1/1
RKA 4/34 SL-34x4² grey, with 34 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	620 034 01	1/1

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
4 x M20
1 x M25/M32

AKi-R 4/34

300 x 150 x 132 mm



Terminal block housing - **I**ndustrial **Q**uality - , incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54

IP65 IK08

AKi-R 4/34-L grey, without terminals	741 901 01	1/1
AKi-R 4/34 grey, with 34 screw terminals 4 mm² (Type Weidmüller WDU 4)	742 034 01	1/1
AKi-R 4/34-SL grey, with 34 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	743 034 01	1/1

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
4 x M20
1 x M25/M32

RKA 4/68

300 x 300 x 132 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
2 x M20
2 x M32/M40/M50
1 x M40/M50/M63
Entries on each side:
4 x M20
1 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Terminal block housing, incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54		
IP65 IK07 halogen-free		
RKA 4/68-L grey, without terminals	629 902 01	1/1
RKA 4/68-68x4² grey, with 68 screw terminals 4 mm² (Type Weidmüller WDU 4)	625 068 01	1/1
RKA 4/68 SL-68x4² grey, with 68 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	620 068 01	1/1

AKi-R 4/68

300 x 300 x 132 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
2 x M20
2 x M32/M40/M50
1 x M40/M50/M63
Entries on each side:
4 x M20
1 x M25/M32
1 x M32/M40/M50

Terminal block housing - **I**ndustrial **Q**uality - , incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54		
IP65 IK08 halogen-free		
AKi-R 4/68-L grey, without terminals	741 902 01	1/1
AKi-R 4/68 grey, with 68 screw terminals 4 mm² (Type Weidmüller WDU 4)	742 068 01	1/1
AKi-R 4/68-SL grey, with 68 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	743 068 01	1/1

RKA 4/102

300 x 450 x 132 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M25/M32
Entries bottom end:
2 x M20
2 x M32/M40
1 x M40/M50/M63
Entries on each side:
8 x M20
2 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Terminal block housing, incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54, 2 twist nipples M50 incl. lock nut		
IP65 IK07		
RKA 4/102-L grey, without terminals	629 903 01	1/1
RKA 4/102-102x4² grey, with 102 screw terminals 4 mm² (Type Weidmüller WDU 4)	625 102 01	1/1
RKA 4/102 SL-102x4² grey, with 102 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	620 102 01	1/1

AKi-R 4/102

300 x 450 x 132 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M25/M32
Entries bottom end:
2 x M20
2 x M32/M40
1 x M40/M50/M63
Entries on each side:
8 x M20
2 x M25/M32
1 x M32/M40/M50

Terminal block housing - **I**ndustrial **Q**uality - , incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54, 2 twist nipples M50 incl. lock nut		
IP65 IK08		
AKi-R 4/102-L grey, without terminals	741 903 01	1/1
AKi-R 4/102 grey, with 102 screw terminals 4 mm² (Type Weidmüller WDU 4)	742 102 01	1/1
AKi-R 4/102-SL grey, with 102 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	743 102 01	1/1

RKA 4/136
300 x 600 x 132 mm

Entries top end:
15 x M20
2 x M20/M25
2 x M25/M32
Entries bottom end:
2 x M20
2 x M32/M40
1 x M40/M50/M63
Entries on each side:
12 x M20
3 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Terminal block housing, incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54, 2 twist nipples M50 incl. lock nut		
IP65 IK07 halogen-free		
RKA 4/136-L grey, without terminals	629 904 01	1/1
RKA 4/136-136x4² grey, with 136 screw terminals 4 mm² (Type Weidmüller WDU 4)	625 136 01	1/1
RKA 4/136 SL-136x4² grey, with 136 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	620 136 01	1/1

AKi-R 4/136
300 x 600 x 132 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M25/M32
Entries bottom end:
2 x M20
2 x M32/M40
1 x M40/M50/M63
Entries on each side:
12 x M20
3 x M25/M32
1 x M32/M40/M50

Terminal block housing - **I**ndustrial **Q**uality - , incl. 10 DMS seals M20, seal range 7 - 12 mm, IP66, 2 DMS seals M25, seal range 9 - 16 mm, IP66, 2 DMS seals M32, seal range 14 - 21 mm, IP66, 1 adapter M40, seal range 17 - 30 mm, IP54, 2 twist nipples M50 incl. lock nut		
IP65 IK08 halogen-free		
AKi-R 4/136-L grey, without terminals	741 904 01	1/1
AKi-R 4/136 grey, with 136 screw terminals 4 mm² (Type Weidmüller WDU 4)	742 136 01	1/1
AKi-R 4/136-SL grey, with 136 screwless terminals 4 mm² (Type Weidmüller ZDU 4)	743 136 01	1/1

Description	Order No.	Packing Qty

ALR 88-4
75 x 80 x 57 mm

Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001,
equipped with 5-pole terminal block 0.2-4 mm² (screw connection)

IP66 | 4² | IK09 | halogen-free

ALR 88-4²	160 405 01	1/1

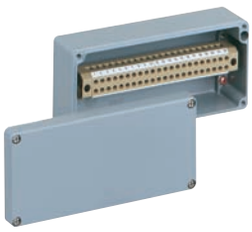
ALR 1308-4
125 x 80 x 57 mm

Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001,
equipped with 12-pole terminal block 0.2-4 mm² (screw connection)

IP66 | 4² | IK09 | halogen-free

ALR 1308-4²	160 406 01	1/1

ALR 1808-4
175 x 80 x 57 mm



Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001,
equipped with 22-pole terminal block 0.2-4 mm² (screw connection)

IP66 | 4² | IK09 | halogen-free

ALR 1808-4²	160 407 01	1/1

ALR 1010-4
100 x 100 x 80 mm

Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001,
equipped with 10-pole terminal block 0.2-4 mm² (screw connection)

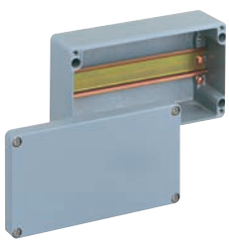
IP66 | 4² | IK09 | halogen-free

ALR 1010-4²	160 408 01	1/1

ALR 1212
122 x 120 x 80 mm

Description	Order No.	Packing Qty
Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001		
IP66 · 4² · IK09 · halogen-free		
ALR 1212-L empty with NS 35	160 909 01	1/1
ALR 1212-4² fitted with 14 x 4² block terminal	160 409 01	1/1

ALR 2212
220 x 120 x 80 mm

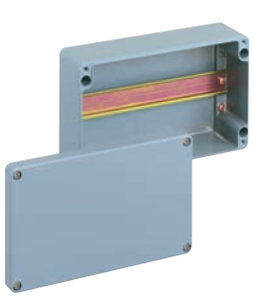


Description	Order No.	Packing Qty
Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001		
IP66 · 4² · IK09 · halogen-free		
ALR 2212-L empty with NS 35	160 910 01	1/1
ALR 2212-4² fitted with 30 x 4² block terminal	160 410 01	1/1

ALR 1616
160 x 160 x 90 mm

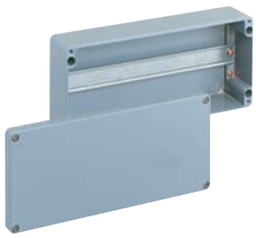
Description	Order No.	Packing Qty
Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001		
IP66 · 4² · IK09 · halogen-free		
ALR 1616-L empty with NS 35	160 911 01	1/1
ALR 1616-4² fitted with 20 x 4² block terminal	160 411 01	1/1

ALR 2616
260 x 160 x 90 mm



Description	Order No.	Packing Qty
Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001		
IP66 · 4² · IK09 · halogen-free		
ALR 2616-L empty with NS 35	160 912 01	1/1
ALR 2616-4² fitted with 36 x 4² block terminal	160 412 01	1/1

ALR 3616
360 x 160 x 90 mm



Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001

IP66 | 4² | IK09 | halogen-free

Description	Order No.	Packing Qty
ALR 3616-L empty with NS 35	160 913 01	1/1
ALR 3616-4² fitted with 52 x 4² block terminal	160 413 01	1/1

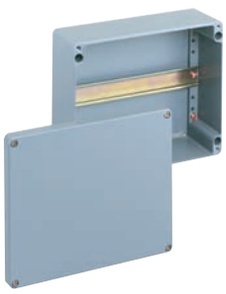
ALR 2023
200 x 230 x 110 mm

Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001

IP66 | 4² | IK09 | halogen-free

Description	Order No.	Packing Qty
ALR 2023-L empty with NS 35	160 914 01	1/1
ALR 2023-4² fitted with 26 screw terminals 4²	160 414 01	1/1

ALR 2823
280 x 230 x 110 mm



Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001

IP66 | 4² | IK09 | halogen-free

Description	Order No.	Packing Qty
ALR 2823-L empty with NS 35	160 915 01	1/1
ALR 2823-4² fitted with 40 x 4² block terminal	160 415 01	1/1

ALR 3323
230 x 330 x 110 mm

Terminal block housing in compact design - **I**ndustrial **Q**uality - Aluminium, powder-coated painting silver grey RAL 7001

IP66 | 4² | IK09 | halogen-free

Description	Order No.	Packing Qty
ALR 3323-L empty with NS 35	160 916 01	1/1
ALR 3323-4² fitted with 47 x 4² block terminal	160 416 01	1/1

Cable glands

IP68

Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/mm	Sealing area/mm	Order No.	Packing Qty
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses /mm	Sealing area/mm	Order No.	Packing Qty
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

Combi connector

IP54

Adapters with open sealing membrane

	f. wall thicknesses /mm	Sealing area/mm	Order No.	Packing Qty
AST M16	1.5 - 4.5	6 - 10	230 416 01	600/50
AST M20	1.5 - 4.5	8 - 13.5	230 420 01	600/50
AST M25	1.5 - 4.5	9 - 18.5	230 425 01	300/50
AST M32	1.5 - 4.5	13 - 23	230 432 01	150/25
AST M40	1.5 - 4.5	17 - 30	230 440 01	120/20

IBT
IBTronic
Stable as concrete

IBT

IBTronic

IBTronic XL

IBTronic XL Drillbox

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U 71 FD Flat box

71 height x 71 x 38 mm, Ø 60 mm

Entries:
2 x up to 20 mm Ø

Description	Order No.	Packing Qty
Flat box for installation in concrete, flat construction for extremely flat walls, 2 screw bosses with screw spacing 60 mm, combinable, suitable for oposing formwork		
IP30 · B · 90°C · halogen-free		
U 71 FD with smooth face for adhesive fixing	971 035 01	100/1

U 71 GRD Receptacle

71 x 71 x 50 mm, Ø 60 mm

Entries:
2 x to 25 mm Ø
(U71 GRD-D: 2 x up to 20 mm Ø

Receptacle for installation in concrete, standard version, 2 screw bosses with screw spacing 60 mm, combinable, suitable for oposing formwork		
IP30 · B · 90°C · halogen-free · VDE		
U 71 GRD also for magnet fixing	971 045 01	100/1
U 71 K GRD with smooth face for adhesive fixing	971 745 01	100/1
U 71 GRD-D Receptacle for extremely thin walls, only 45 mm deep	971 045 02	100/1

U 71 KUD Dome box

71 x 71 x 89/91 mm, Ø 60 mm

Entries:
4 x to 25 mm Ø, 45°
2 x to 25 mm Ø

Dome box for installation in concrete, also usable as a ceiling box, 2 screw bosses with screw spacing 60 mm, combinable, suitable for opposing formwork and for magnet fixing		
IP30 · B · 90°C · halogen-free		
U 71 KUD also for magnet fixing	971 047 01	100/1
U 71 KUD-M5 with M5 threaded bush to take a ceiling hook (979 122 01)	971 248 01	100/1

U 71 GVD-2 Equipment junction box 2-piece
71 x 71 x 68 mm, Ø 60 mm

Entries:
6 x to 25 mm Ø
2 x to 20 mm Ø

Description	Order No.	Packing Qty
Equipment junction box for installation in concrete, with enlarged connection chamber, 4 screw bosses with screw spacing 60 mm, combinable, suitable for oposing formwork		
IP30 · B · 90°C · halogen-free · VDE		
U 71 GVD-2 also for magnet fixing	971 065 01	80/1
U 71 K GVD-2 with smooth face for adhesive fixing	971 765 01	80/1

U 71 GVD-3 Equipment junction box 3-piece
71 x 71 x 68 mm, Ø 60 mm

Entries:
6 x to 25 mm Ø
2 x to 20 mm Ø

Description	Order No.	Packing Qty
Equipment junction box for installation in concrete in component factories, 4 screw bosses with screw spacing 60 mm, combinable, suitable for oposing formwork		
IP30 · B · 90°C · halogen-free · VDE		
U 71 GVD-3 also for magnet fixing	971 365 01	80/1
U 71 K GVD-3 with smooth face for adhesive fixing	971 865 01	80/1

U 71 GRO Large conduit box
71 x 71 x 76 mm, Ø 60 mm

Entries:
4 x to 37 mm Ø

Description	Order No.	Packing Qty
Large conduit box for installation in concrete, 4 screw bosses with screw spacing 60 mm, combinable, suitable for oposing formwork		
IP30 · B · 90°C · halogen-free · VDE		
U 71 GRO also for magnet fixing	972 960 01	75/1
U 71 K GRO with smooth face for adhesive fixing	972 760 01	75/1

U 71 TD Deep box

71 x 71 x 44/49 mm, Ø 60 mm

Entries:
972 945 01:
4 x to 32 mm Ø
972 925 01:
6 x to 25 mm Ø
2 x to 20 mm Ø

Description	Order No.	Packing Qty
Deep box for installation in concrete, as top housing for all U 71 boxes when using large conduits, screw spacing 60 mm, suitable for opposing formwork		
B 90°C halogen-free		
U 71 TD-44 Deep box M25, 44 mm deep	972 925 01	100/1
U 71 TD-49 Deep box M32, 49 mm deep	972 945 01	100/1

WAD Wall outlet box

71 x 71 x 48 mm, Ø 35 mm

Entries:
2 x to 20 mm Ø

Wall outlet box for installation in concrete, for connecting wall luminaires according to VDE 0100, with screwed hole for light fixing, combinable, front outlet of 35 mm		
IP30 B 90°C halogen-free VDE		
WAD suitable for oposing formwork	970 560 01	100/1
WAD VD Sealing cover white, 35 mm Ø, outlet cover	970 562 01	600/100

U 71 DAD Ceiling luminaire junction box

71 x 71 x 89 mm, Ø 35 mm

Entries:
4 x to 25 mm Ø, 45°
2 x to 20 mm Ø

Ceiling luminaire junction box for installation in concrete, front section grey, rear dome with threaded bush M5to take a ceiling hook, combinable, front outlet of 35 mm		
IP30 B 90°C halogen-free		
U 71 DAD suitable for oposing formwork	971 548 01	100/1

U 71 Perilex® Receptacle

71 x 71 x 50 mm, Ø 70 mm

Entries:
6 x to 22.5 mm Ø

Description	Order No.	Packing Qty
Perilex® receptacle for installation in concrete, screw spacing 67 mm, for Perilex® inserts 16 A, FR-UP equipment, CEE sockets 5-pole 16 A		
IP30 B 90°C halogen-free		
U 71 Perilex suitable for oposing formwork, and magnet fixing	973 050 01	50/1

U 71 DVD
Ceiling connection box

71 x 71 x 79/81 mm, Ø 60 mm

Entries:
6 x to 25 mm Ø
2 x to 20 mm Ø

Description	Order No.	Packing Qty
Ceiling connection box for installation in concrete, 4 screw bosses with screw spacing 60 mm, standard version, with M5 threaded bush to take a ceiling hook, combinable, suitable for opposing formwork		
IP30 B 90°C halogen-free VDE		
U 71 DVD-2 also for magnet fixing, 2-part	971 066 01	50/1
U 71 K DVD-2 with smooth face for adhesive fixing, 2-part	971 766 01	50/1
U 71 K DVD-3 with smooth face for adhesive fixing, 3-part	971 866 01	50/1

U 86 DVD
Universal Ceiling box

106 height mm, Ø 74/92 Ø mm

Entries:
8 x to 26 mm Ø

Description	Order No.	Packing Qty
Universal ceiling box for installation in concrete, for slab ceilings up to 4.5 cm thick, with M5 threaded bush to take a ceiling hook		
IP30 B 90°C halogen-free VDE		
U 86 DVD-2 also for magnet fixing, 2-part	973 081 02	50/1
U 86 K DVD-2 with smooth face for adhesive fixing, 2-part	973 781 01	50/1
U 86 K DVD-3 with smooth face for adhesive fixing, 3-part	973 783 01	50/1

U 120 GRO
Large conduit ceiling box
122 height mm, Ø 80/92 Ø mm

Entries:
4 x to 35 mm Ø
8 x to 26 mm Ø

Description	Order No.	Packing Qty
Ceiling box for installation in concrete, for slab ceiling up to 6.5 cm thick, with M5 threaded bush to take a ceiling hook		
IP30 B 90°C halogen-free		
U 120 GRO-3 also for magnet fixing, 3-part	973 312 01	35/1
U 120 K GRO-2 with smooth face for adhesive fixing, 2-part	973 712 01	40/1
U 120 K GRO-3 with smooth face for adhesive fixing, 3-part	973 713 01	40/1

ROP Conduit ferrule

Conduit ferrule for installation in concrete with bottom section to take various conduit diameters, also suitable for opposing formwork		
B 90°C halogen-free		
ROP 18 Hole 18 Ø, for conduit type M20, external diameter 20 mm	970 518 01	210/1
ROP 23 Hole 23 mm Ø, for conduit type M25, external diameter 25 mm	970 523 01	90/1
ROP 30 Hole 30 mm Ø, for conduit type M32, external diameter Ø 32 mm	970 530 01	90/1
ROP 37 Hole 37 mm Ø, for conduit type M40, external diameter Ø 40 mm	970 537 01	100/1

ROP Ceiling plug

Ceiling plugs for conduit ferrule bottom section for protection against ingress of dirt after concreting		
B 90°C halogen-free		
ROP 18-VST for opening 18mm, for 970 518 01	970 318 01	1500/250
ROP 23-VST for opening 23mm, for 970 523 01	970 323 01	750/125
ROP 30-VST for opening 30mm, for 970 530 01	970 330 01	300/1

ROK Conduit elbow

Description	Order No.	Packing Qty
Conduit elbow for 30° entry for installation in conduit ferrule		
ROK 1 30° small for conduit ferrule 970 518 01	970 425 01	300/1
ROK 2 30° average for conduit ferrule 970 523 01	970 430 01	120/1
ROK 3 30° large for conduit ferrule 970 530 01	970 435 01	120/1

ROK Conduit ferrule/Conduit elbow set

Description	Order No.	Packing Qty
Conduit ferrule / conduit elbow set for installation in concrete, 3-part, consisting of conduit ferrule with bottom section and conduit elbow 30°		
ROK 1-S for conduit type M20	970 720 01	30/1
ROK 2-S for conduit type M25	970 725 01	15/1
ROK 3-S for conduit type M32	970 732 01	15/1

IBT DST Conduit stopper

Description	Order No.	Packing Qty
Conduit stopper made of corrugated cardboard, to limit the insertion of conduits, for use in U71-boxes		
IBT DST	979 109 01	1/1

KOT Cone funnel

Description	Order No.	Packing Qty
Cone funnel for installation in concrete for wall-to-wall connection in large panel constructions and for connections from risers (e.g. telephone TV) also suitable for magnet fixing and opposing formwork		
B 90°C halogen-free		
KOT 18 71 x 71 x 87mm hole Ø 18mm for conduit type M20	970 618 01	70/1
KOT 23 71 x 71 x 112mm hole Ø 23mm for conduit type M32	970 623 01	60/1
KOT 30 71 x 71 x 112mm hole Ø 30mm for conduit type M32	970 630 01	60/1
KOT 37 71 x 71 x 112mm hole Ø 37mm for conduit type M40	970 637 01	60/1

KUT Dome funnel

71 x 71 x 62/64 mm, Ø 60 mm

Entries:
4 x to 25 mm Ø, 45°

Dome funnel for installation in concrete, as a ceiling outlet for internal partition or as luminaire outlet, combinable, also suitable for adhesive fixing and opposing formwork		
IP30 B 90°C halogen-free		
U71 KUT	970 540 01	150/1
U 71 KUT-M5 with M5 threaded bush	970 748 01	150/1

KUK Dome box

90 x 40 x 55 mm

Entries:
10 x up to 22.5 mm Ø

Dome box for installation in concrete, as a ceiling outlet in site cast concrete or large panel construction		
B 90°C halogen-free		
KUK as a wall ceiling connection in large panel construction	970 550 01	100/1

VBK Connection box

95 x 90 x 50 mm

Entries:
3 x to 28.3 mm Ø

Description	Order No.	Packing Qty
Connection box for installation in concrete, as a wall / ceiling transfer in large panel construction		
IP30 B 90°C halogen-free		
VBK as a wall branch box in site cast concrete	970 690 01	60/1

DAL Universal outlet cleats

Universal outlet cleats for installation in concrete, usable as a ceiling outlet with a large tolerance compensation. DAL 1 and DAL 2 can be combined next to each other and one behind the other without tools		
B 90°C halogen-free		
DAL 1 for conduits M20, M25 (171 x 49 x 35 mm)	970 705 01	100/1
DAL 2 for conduits M25 (171 x 49 x 35 mm)	970 706 01	100/1
DAL 4 for conduits M32, M40 (315 x 80 x 90 mm), reusable	970 704 01	50/1

VST Sealing plug

Sealing plugs with closed diaphragm are needed when DAL 1 / DAL 2 are combined one behind the other, for panel thickness 1.5 - 4.0mm			
IP54 B 90°C halogen-free			
	Sealing area/mm		
VST M20-or	8 - 13.5	231 620 01	1200/100
VST M25-or	9 -16	231 625 01	600/50

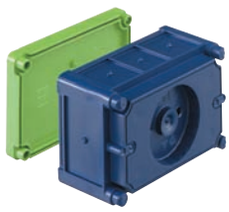
UVA Universal outlet 90°

126 x 86 x 57 mm

Description	Order No.	Packing Qty
Universal outlet for installation in concrete, for easy conduit transfer in the wall and ceiling area or for continuing conduits under the screed, entries for conduits up to M25. Suitable for adhesive fixing and opposing shuttering		
B 90°C halogen-free		
UVA 90 Universal outlet 90°, (spar length = wall thickness minus 2 cm)	970 716 01	90/1

K0 EK Installation box

111 x 71 x 61 mm



Entries:
8 x to 32 mm Ø

Installation box for installation in concrete, suitable as a junction box, screw spacing 83.5 and 100 mm, complies with AFI-Standard, combinable		
IP30 B 90°C halogen-free VDE		
K0 EK for opposing formwork and magnet fixing	977 001 01	50/1

K15 EK Installation box

116 x 111 x 61 mm

Entries:
12 x up to 32 mm Ø

Installation box for installation in concrete, suitable as a junction box with large terminal space, screw spacing 83.5 and 100 mm, complies with AFI-Standard, combinable		
IP30 B 90°C halogen-free VDE		
K15 EK for opposing formwork and magnet fixing	977 002 01	30/1

K1 EK Installation box

85 x 91 x 53 mm

Entries:
6 x to 23 mm Ø

Description	Order No.	Packing Qty
Installation box for installation in concrete, suitable as a junction box or installation box for Zettler light call E1		
IP30 · B · 90°C · halogen-free · VDE		
K1 EK for opposing formwork and magnet fixing	975 001 01	50/1

K2 EK Installation box

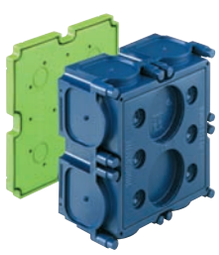
91 x 149 x 53 mm

Entries:
10 x up to 23 mm Ø

Installation box for installation in concrete, suitable as a junction box, as an installation box for Zettler light call E2 or for various intercoms		
IP30 · B · 90°C · halogen-free · VDE		
K2 EK for opposing formwork and magnet fixing	975 002 01	30/1

K3 EK Installation box

142 x 142 x 70 mm

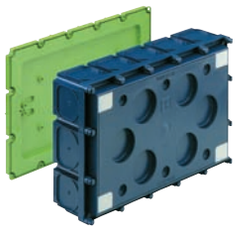


Entries:
8 x to 47.5 mm Ø

Installation box for installation in concrete, prepared to take the WK-Terminal blocks 2.5-25 mm², suitable to take a 20-pin telephone terminal strip or as a telephone continuity box to DIN 47614-615, combinable		
IP30 · B · 90°C · halogen-free · VDE		
K3 EK for opposing formwork and magnet fixing	980 002 01	15/1

K4 EK Installation box

311 x 202 x 87 mm

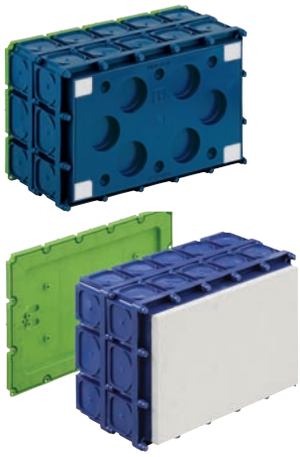


Entries:
16 x to 47.5 mm Ø

Description	Order No.	Packing Qty
Installation box for installation in concrete, prepared to take the WK terminal blocks 2.5 – 25 mm², suitable to take a 40-pin telephone terminal strip, as a telephone continuity box according to DIN 47614-615 or IBT-Distribution set UP 015 (single row, 15 way units), combinable		
IP30 · B · 90°C · halogen-free · DVE		
K4 EK for opposing formwork and magnet fixing	980 004 01	4/1

K4 - H EK Installation box

311 x 202 x 158 mm / 171 mm* mm



Entries:
32 x to 47.5 mm Ø

Installation box for installation in concrete, prepared to take the WK terminal blocks 2.5 – 25 mm², suitable to take a 40-pin telephone terminal strip, as a telephone continuity box according to DIN 47614-615 or IBT-Distribution set UP 015 (single row, 15 way units), combinable		
IP30 · B · 90°C · halogen-free		
K4-H EK for opposing formwork and magnet fixing	980 005 01	2/1
K4-H-P EK Selectable outlet aperture: Fermacell ® plasterboard, variable up to 150 mm x 220 mm	980 006 01	2/1

UP 015 – Distribution set

311 x 202 x 87 mm

Distribution set single row, 15 way units, plastic frame and doors, white, with spring latch, 35 mm DIN standard rails, PE/N terminals, masking-off strips and label pad		
B · 90°C · halogen-free		
UP 015 for installation box K4 EK	986 000 01	6/1

K8 EK Installation box

320 x 440 x 95 mm

Entries:
12 x up to 42 mm Ø

Description	Order No.	Packing Qty
Installation box for installation in concrete, including fitting template, for all types of formwork fixing in the IBT range		
IP30 · B · 90°C · halogen-free		
K8 EK for opposing formwork and magnet fixing	988 002 01	1/1

K12 EK Installation box

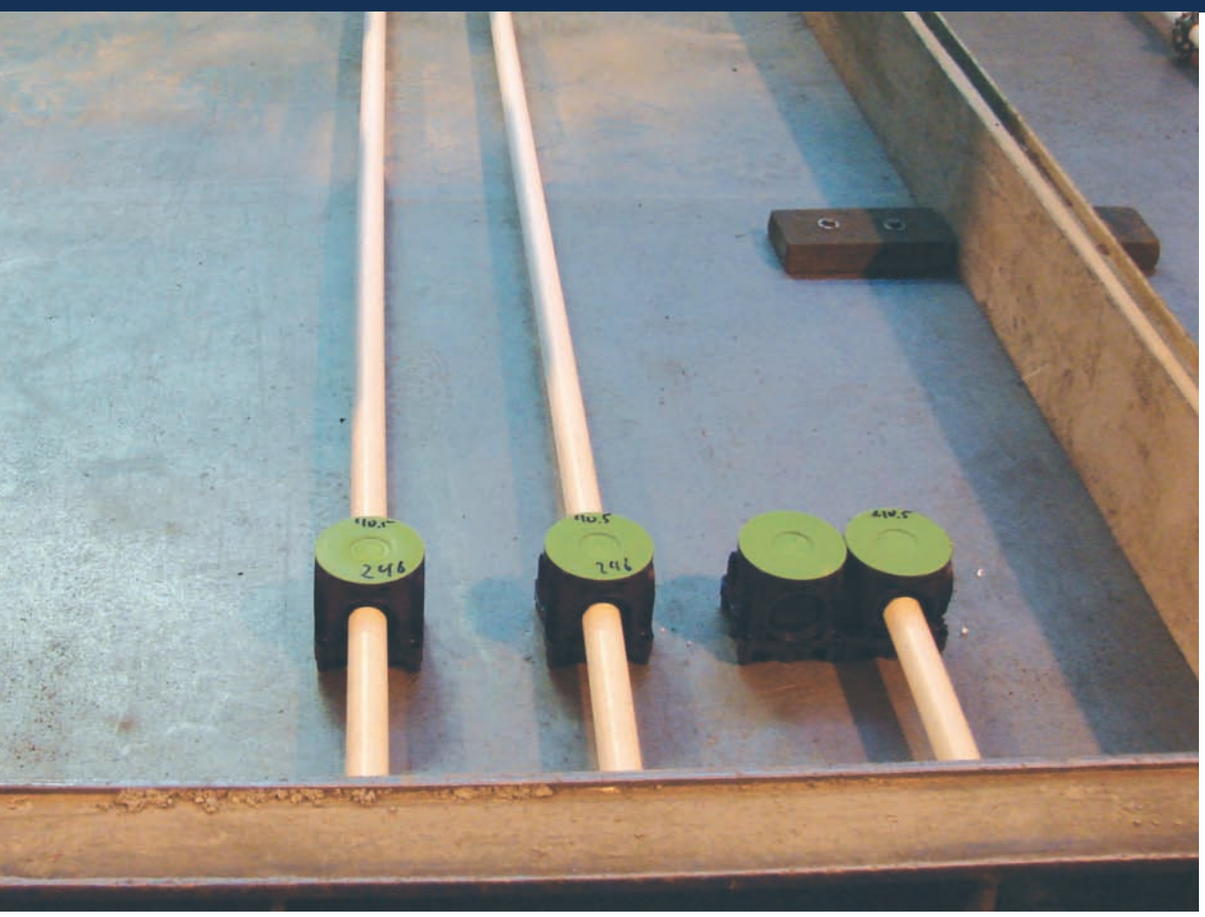
320 x 565 x 95 mm

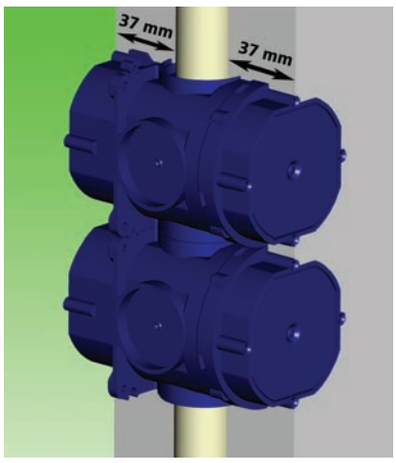
Entries:
24 x to 42 mm Ø

Description	Order No.	Packing Qty
Installation box for installation in concrete, including fitting template, for all types of formwork fixing in the IBT range		
IP30 · B · 90°C · halogen-free		
K12 EK for opposing formwork and magnet fixing	988 003 01	1/1

IBT Lightweight concrete connectors sockets

IP30 | B | 90°C | halogen-free





Sockets for wall thicknesses greater than 100mm were developped especially for the lightweight concrete industry, fulfilling the unique requirements of the production that industry's techniques.

Different front panels enable quicker mounting times and lower costs.

- Universal possibility of mounting (front part smooth, open and with embossing)
- Box for mounting of devices on both sides (100 mm wall thickness)

▲ Can be combined without utilitises in the standard distance of 71 mm

Cracks in lightweight concrete walls are now a thing of the past! These new Spelsberg lightweight concrete enclosures feature low-slung conduit apertures up to 4xM25/M32. The concrete covering-over of up to 37 mm guarantees crack-free walls.

LB 71 GVD 86

86 height mm, Ø 60 mm

Entries:
4 x to 32 mm Ø

Description	Order No.	Packing Qty
Branch socket for installation in concrete, universal socket with big interior space, 4 screw bosses with screw spacing 60 mm for fixing equipment, can be combined		
IP30 · B · 90°C · halogen-free		
LB 71 M GVD 86 suitable for magnet fixing	981 084 01	75/1
LB 71 K GVD 86 suitable for adhesive fixing	981 784 01	75/1
LB 71 O GVD 86 suitable for use in form work table	981 884 01	75/1

LB 71 GVD 100

100 height mm, Ø 60 mm

Entries:
4 x to 32 mm Ø

Description	Order No.	Packing Qty
Branch socket for installation in concrete, universal socket with big interior space, 4 screw bosses with screw spacing 60 mm for fixing equipment, can be combined		
IP30 · B · 90°C · halogen-free		
LB 71 M GVD 100 suitable for magnet fixing	981 010 01	60/1
LB 71 K GVD 100 suitable for adhesive fixing	981 710 01	60/1
LB 71 O GVD 100 suitable for use in form work table	981 810 01	60/1

BS 1 Equipment installation box

86 x 86 x 60 mm

Entries:
8 x to 32 mm Ø

Description	Order No.	Packing Qty
Equipment installation box for installation in concrete, „1-gang-box" for installing „British Standard" equipment, screw spacing 60.3 mm (2³/8 inch.), delivered with earthing screw		
IP30 B 90°C halogen-free		
BS 1 for opposing formwork and magnet fixing	974 001 01	50/1

BS 2 Equipment installation box

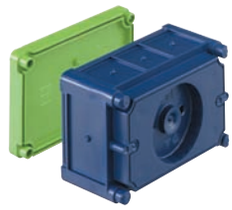
146 x 86 x 60 mm

Entries:
10 x up to 32 mm Ø

Equipment installation box for installation in concrete, „2-gang-box" for installing „British Standard" equipment", screw spacing 120.6 mm (4¾ inch.), delivered with earthing screw		
IP30 B 90°C halogen-free		
BS 2 for opposing formwork and magnet fixing	974 002 01	30/1

K0 EK Installation box

111 x 71 x 61 mm



Entries:
8 x to 32 mm Ø

Installation box for installation in concrete, for installing "American Standard 432", equipment according to NEMA Publ. NO.OS 1, screw spacing 83,5 mm (3 9 /32 inch.), combinable		
IP30 B 90°C halogen-free		
K0 EK for opposing formwork and magnet fixing	977 001 01	50/1

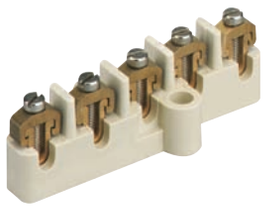
K15 EK Installation box

116 x 111 x 61 mm

Entries:
12 x up to 32 mm Ø

Description	Order No.	Packing Qty
Installation box for installation in concrete, for installing "American Standard", equipment according to NEMA Publ. NO.OS 1, corresponds to the »''4` square box« for 2 units, screw spacing 2 x 83,5 mm (3 9 /32 inch.), combinable		
IP30 B 90°C halogen-free		
K15 EK for opposing formwork and magnet fixing	977 002 01	30/1

Terminal



Description	Order No.	Packing Qty
Terminal for installation in IBT-boxes		
Abox 025/040 KLS-2,5²/4² 5x2.5/4mm², for K0-, K15, K1-, K2-EK boxes	840 004 01	160/10
WK 060 KLS-6² 5x6mm² , for K15, K2-, K3-EK boxes	460 506 01	1/1
WK 100 KLS-10² 5x10mm² , for K15, K3-, K4-EK boxes	460 510 01	1/1
WK 160 KLS-16² 5x16mm² , for K3-, K4-EK boxes	460 516 01	1/1
WK 250 KLS-25² 5x25mm², for K4-EK boxes	460 535 01	1/1

IBT ST Plugs

IBT-Plug		
IBT ST protects the holes for the equipment screws from ingress of concrete	979 205 01	6000/1000

GWB Threaded base M5

15 height mm

Threaded base M5		
GWB to take a ceiling hook, converts every U71 junction box to a ceiling socket	979 110 01	120/1

U 71 KP Dome

43 height mm

Dome with threaded bush M5, suitable as an attachment for U 71 boxes as well as magnet and adhesive blank bases		
U 71 KP-M5 (suitable for series U 71)	971 748 01	100/1

Accessories for combinations

Interconnection frames for the combination of boxes under extreme loading

Description	Order No.	Packing Qty
VB 71 for a spacing 71 mm	979 212 01	900/150
VB 80/85 for a spacing 80 and 85 mm	979 213 01	450/75
VB 90 for a spacing 90 mm	979 214 01	600/100
VB 105 for a spacing 105 mm	979 215 01	600/100

Accessories for combinations

Compound nipple as a seal and wire grommet for a spacing of 71 mm

VBN (for U 71 receptacle 971 045 02)	979 210 01	900/150

VD Sealing cap

Sealing cap, white, flame retardant, for special boxes

	Dimensions/mm	for type		
K0 VD	110 x 70	K0 EK	977 100 01	180/30
K15 VD	115 x 110	K15 EK	977 105 01	90/15
K1 VD	90 x 90	K1 EK	975 100 01	150/25
K2 VD	146 x 90	K2 EK	975 102 01	90/1
K3 VD	142 x 142	K3 EK	980 100 01	50/10
K4 VD	311 x 202	K4 EK	980 104 01	10/1
K8 VD	442 x 320	K8 EK	980 108 01	10/1
K12 VD	567 x 320	K12 EK	980 112 01	10/1

VD Sealing cap

Sealing cap for junction boxes, flame retardant, white, with fixing screws

	Diameter	for type		
VD 75	75 mm	U71, U86, U120	979 100 01	200/25
HW VD-60	90 mm	U71	925 101 01	300/10
HW VD-67	90 mm	U86, U120	925 100 01	300/10
U 71 VDF	80 mm	U71	979 102 01	100/10
U 86 VDF	90 mm	U86	979 103 01	100/10
U 71 VDS	80 mm	U71	979 104 01	100/10

BS VD Sealing cap

Description	Order No.	Packing Qty
Sealing cap BS, white, flame-retardant, with fixing screws and temporary bridges		
BS 1 VD for special box BS 1, 86 x 86 mm	974 100 01	150/25
BS 2 VD for special box BS 2,146 x 86 mm	974 102 01	90/15

DH Ceiling hook

Ceiling hook, insulated, with wood screw thread

	Shaft length	for type		
DH 55	55	970 425 01	979 115 01	600/100
DH 65	65	970 540 01	979 118 01	600/100
DH 90	90	971 047 01	979 116 01	600/100

DH Ceiling hook

Ceiling hook, insulated, with M5 thread

	Shaft length	for type		
DH 65-M5	65	970 748 01	979 120 01	600/100
DH 75-M5	75	971 060 01/971 766 01/971 860 01	979 117 01	600/100
DH 90-M5	90	971 248 01/971 548 01	979 122 01	600/100
DH 100-M5	100	973 081 01/973 781 01/973 783 01	979 119 01	600/100
DH 115-M5	115	973 312 01/973 713 01/973 712 01	979 121 01	600/100
DH 135-M5	135	970 748 01	979 123 01	600/100

U 71 Blank base BSK

71 x 71 x 25/21 mm

Blank base, Base for supporting IBT boxes and boxes in opposing formwork in conjunction with support spars, can be combined via snap-in connection, if fitting the blank base using nails, magnet, adhesive, the fixing points must be plastered subsequently.
For fitting:
1. the U 71 boxes in opposing formwork, at a 71 mm spacing.
Can also be combined with interconnecting frame for extreme loading.
2. the special box K3 EK and K4 EK in opposing formwork with 2 or 4 bases and 3 support spars each in the corners

U 71 BSK-NA Height 25 mm for nail fixing	979 530 01	80/1
U 71 BSK-2 Height 25 mm for face concrete, minimum visibility on the feet	979 530 02	80/1
U 71 BSK-K Height 21 mm for adhesive fixing	979 538 01	80/1
U 71 BSK Height 21 mm for magnet fixing, magnet hole has to be plastered later, has to be plastered later	979 539 01	80/1

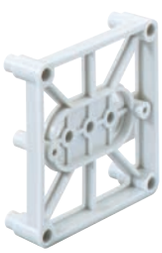
BL Blank cleats
21 x 110 x 15 mm

Description	Order No.	Packing Qty
Blank cleat for fixing the transition box K0 and the special box K15 EK for opposing formwork, for each 2 pieces are required		
K0 K15 BL	979 532 01	200/1

K1 K2 BL Blank cleats
21 x 90 x 15 mm

Blank cleat for fixing 1. for special boxes K1 EK and K2 EK boxes for opposing formwork 2. the cone funnel for transfer from risers, 2 off required per insert		
K1 K2 BL	979 531 01	200/1

BS Blank base



Blank base BS to support the BS-boxes, for opposing formwork in conjunction with support spars		
BS 1-BSK 86 x 86 x 25 mm	974 431 01	100/1
BS 2-BSK 146 x 86 x 25 mm	974 432 01	60/1

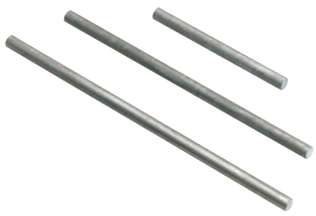
BSK Blank base

Blank base to support the conduit elbows including conduit ferrules, for opposing formwork in conjunction with support spars		
BSK 1 for conduit ferrules 970 518 01	970 500 01	150/1
BSK 2 for conduit ferrules 970 523 01 / 970 530 01	970 505 01	90/1

STH-STU Support buffer

Support buffer as an attachment for support spars when using magnetic clamps or adhesive in vertical formwork (instead of the blank base)		
STH-STU	979 535 01	6000/1000

STH Support spars



Support spars for various wall thicknesses in opposing formwork, always used in conjunction with blank base or back mounted box, spar length = wall thickness minus 1 cm

Description	Wall thickness	Spar length	Order No.	Packing Qty
STH 70	8 cm	7 cm	979 570 01	1000/50
STH 90	10 cm	9 cm	979 590 01	600/50
STH 100	11 cm	10 cm	979 600 01	600/50
STH 110	12 cm	11 cm	979 610 01	600/50
STH 130	14 cm	13 cm	979 630 01	500/50
STH 140	15 cm	14 cm	979 640 01	500/50
STH 150	16 cm	15 cm	979 650 01	400/50
STH 170	18 cm	17 cm	979 670 01	400/50
STH 190	20 cm	19 cm	979 690 01	400/50
STH 230	24 cm	23 cm	979 730 01	300/50
STH 240	25 cm	24 cm	979 740 01	200/50
STH 290	30 cm	29 cm	979 790 01	200/50

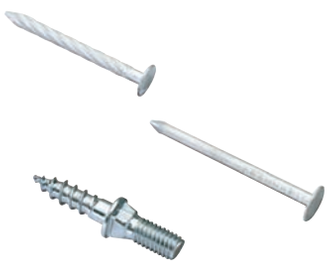
Cartridge insert

Ø 6 mm

Cartridge insert, 6 mm Ø, when support spar-tolerance is required

STH-ELP	979 536 01	300/1

Fixings for Wood / plastic formwork



Fixings for wood / plastic formwork, for site cast concrete or poured concrete construction on wooden formwork, for extreme loading use 2 nails

NA-AL Aluminium nail, 40 mm, longridged	979 242 01	4800/800
NA-AL/gl Aluminium nail, 40 mm, smooth	979 243 01	4800/800
DOS Double screw for permanent fixing, in series production M6 (15 mm) and, wood thread (20 mm), length 35 mm	979 266 01	30/1

Fixings for plastics / steel formwork

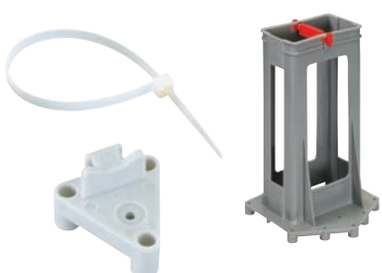
Fixings forplastic / steel formwork

KR Adhesive black, as a non-damaging fixing, when using blank and flange, (usable several times), with vertical formwork, also use support spars	979 248 01	1200/200
HFL Support flange 50 mm Ø, plastic	979 250 01	300/50
HC Support clip for mesh thickness as an auxiliary fixing for the boxes onto, only usable with support spars	979 245 01	600/100

Fixings for steel formwork

Description	Order No.	Packing Qty
Fixings for steel formwork		
NAS-AL Spreader nail, aluminium 40 mm, with plastic plug for fixing the boxes on the steel formwork (drilled hole 5.5 mm), has proven excellent for tunnel formwork	979 240 01	1800/300
ANSW Weld on screw M6 x 10 mm, inexpensive, secure fixing of the box , onto steel formwork without drilling	979 260 01	50/1
HM Magnetic clamps, 50 mm Ø, normal, pull off strength 120 +/- 20 N	979 280 01	3/1
HM-UNI Magnetic clamps, 50 mm Ø, extra strong, pull off strength 300 +/- 20 N=30kp)	979 299 01	3/1
MA Magnetic lifter for dismounting the magnetic clamps HM and HM-UNI, 2-piece	979 300 01	1/1

Fixings for conduits and cables



Fixings for conduits and cables		
KBI 1 Clip 4.6 x 180 mm	979 136 01	2000/100
ABH 1 Spacer, 40 x 40 x 33 mm	979 135 01	300/1
ROS Conduit support, grey, height 21 cm	979 230 01	25/1

RVB Conduit connector

Conduit connector (without conduit) with cleat, grey, for flexible and rigid metric electro-installation conduits		
RVB 20 for pipes M20	970 220 01	100/1
RVB 25 for pipes M25	970 225 01	50/1
RVB 32 for pipes M32	970 232 01	25/1
RVB 40 for pipes M40	970 240 01	25/1

IBT LZA Hand hole punch

Description		Order No.	Packing Qty
Hand hole punch, punching tool for making precision fit entries in concrete boxes, perforation always 1 - 3 mm smaller than the outside diameter of the conduit / conductor			
IBT LZA-OE	without punch set	978 100 01	1/1
IBT LZA-18	with 18mm punch set for conduit M20	978 118 01	1/1
IBT LZA-23	with 23mm punch set for conduit M25	978 123 01	1/1

WED Expansion mandrel

Expansion mandrel, assembly tool when inserting conduit		
WED Expansion range 9 - 25 mm Ø	979 155 01	90/15

Punch sets

Punch sets as replacements or where expansion is required

	hole diameter	for cable / conduit type (outside-Ø)		
IBT STE-LZA/10	10 mm	NYY 3 x 1.5 (11mm)	978 910 01	1/1
IBT STE-LZA/14	14 mm	M16 (16mm)	978 914 01	1/1
IBT STE-LZA/18	18 mm	M20 (20mm)	978 918 01	1/1
IBT STE-LZA/23	23 mm	M25 (25mm)	978 923 01	1/1

LST Hole punch

Hole punch for large scale operation in pre-cast concrete factories, with fixing devices		
LST with 18 mm and 23 mm punch sets, as well as expansion mandrel	979 162 01	1/1

Punch sets

Punch sets for LST Hole punch

	hole diameter	for cable / conduit type (outside-Ø)	Order No.	Packing Qty
IBT STE-LST/8	8 mm	NYY 3 x 1.5 (11mm)	978 808 01	1/1
IBT STE-LST/14	14 mm	M16 (16mm)	978 814 01	1/1
IBT STE-LST/18	18 mm	M20 (20mm)	978 818 01	1/1
IBT STE-LST/23	23 mm	M25 (25mm)	978 823 01	1/1
IBT STE-LST/30	30 mm	M32 (32mm)	978 830 01	1/1
IBT STE-LST/39	39 mm	M40 (40mm)	978 839 01	1/1

BS MBR MBR Assembly bridge

Assembly bridge for the installation of British Standard equipment in boxes BS 1 und BS 2, can be clicked and moved sideways

BS MBR 2 off required per box	974 120 01	1200/100

BS ES Installation screws

Installation screws for fixing BS equipment

BS ES-30	3.5 x 30 mm	974 130 01	4000/1
BS ES-40	3.5 x 40 mm	974 135 01	3000/1
BS ES-50	3.5 x 50 mm	974 150 01	2000/1

IBT LFR Hole saw

Hole saw, perforating tool for creating conduit entries,
7 replaceable inserts from 25 - 62 mm Ø

IBT LFR will fit any commercial drill chuck	979 160 01	12/1

HW LFR Hole cutter

Description	Order No.	Packing Qty
Hole cutter, 120 mm Ø, suitable for wood and gypsum concrete panels		
HW LFR-120 will fit any commercial drill chuck, diameter 120 mm Ø, Cutting depth 40mm	925 121 01	1/1

ES Installation screws

Additional device screws for fixing of built-in devices in cavity wall sockets			
ES-10	3.1 x 10 mm	979 105 01	400/1
ES-18	3.1 x 18 mm	979 106 01	250/1
ES-25	3.1 x 25 mm	979 107 01	200/1

Never again doing a jigsaw puzzle…

IBTronic XL … easy mounting - concreting - installing!

IPX4 | B | 90°C | halogen-free

Do you spend?

- hours looking for components
- time on price calculations
- time on complicated planning
- time on costly mounting in production

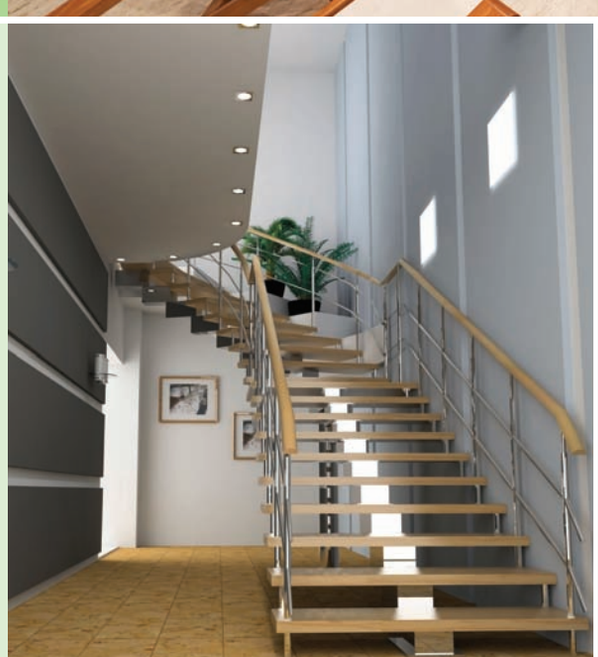
To put it in a nutshell – **doing a jigsaw puzzle!**

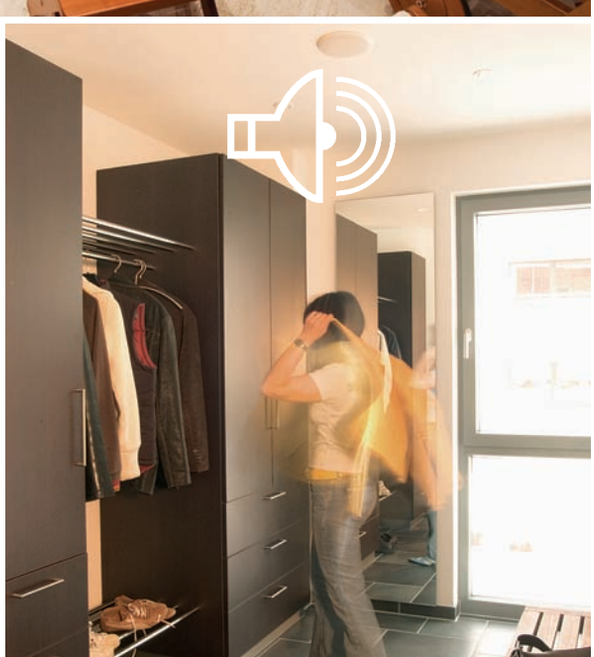
IBTronic XL automatically puts the jigsaw puzzle together.

IBTronic XL offers an economic and low-priced solution with integrated accessory parts!

IBTronic XL = Many requirements – one part

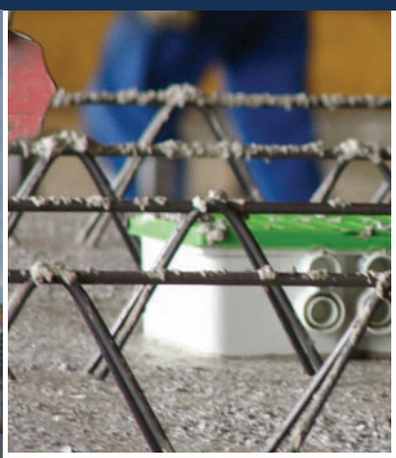
Applications
The new IBTronic XL enclosure system offers versatile opportunities to integrate NV/HV/LED luminaries and loudspeakers in prefabricated ceilings in a simple way.
Application to site cast is also possible.





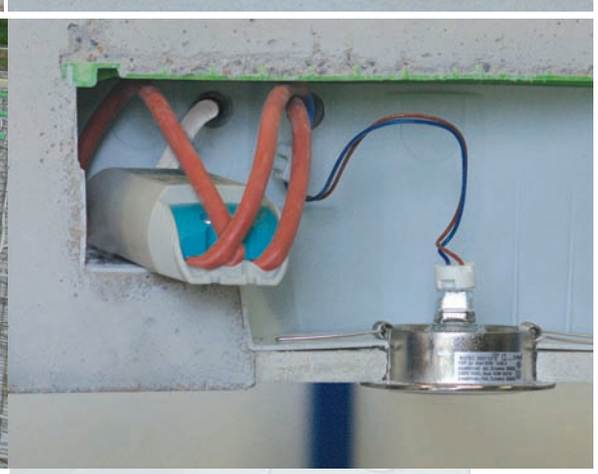
IBTronic XL H 185
for applications in component factories

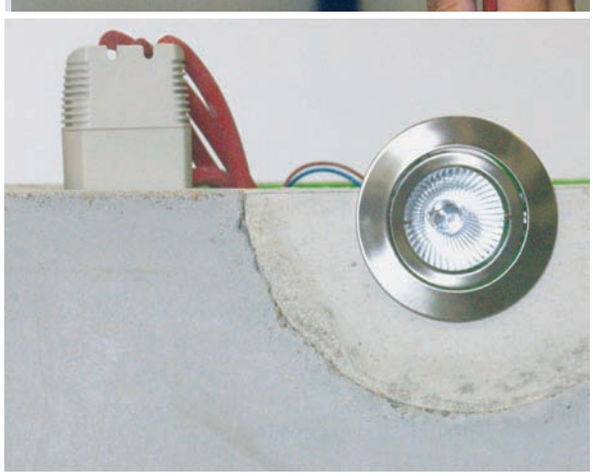
IPX4 | B | 90°C | halogenfrei



IBTronic XL H 185

- Universal installation housing for applications in pre cast ceiling factories for mounting of NV / HV / LED-luminaires and loudspeakers
- Plasterboard with tolerance compensation Ø 185 mm
- Outlet aperture: variable up max. 150 mm
- Housing up max.150 VA
- Volume 4.5 litre
- Simplified installation of transformer due to short cable runs
- Simple alignment due to marking of the centre of cover and enclosure
- 4 stainless steel clamps used to give stability and safety, plasterboard can be used throughout
- Problem-free retrieving after plastering thanks to plaster mark
- Pilable:
  - Minimal Stock
  - Protection of plasterboard





Light installation

- Drilling ceiling outlet up to Ø 150 mm with the Spelsberg Profi Hole cutter
- Transformer installation up max. 150 VA
- For the installation of VDE approved luminaires according to DIN EN 60598 and with ⓕ or ⓜⓜ marking, power luminaire max. 50 W.

Introducing a flexible system

- 8 integrated conduit entries for rigid and corrugated conduits
  976 604 01 (4 x M20, 4 x M25)
  976 604 02 (4 x M16, 4 x M19)
- Integral conduit stopper and strain relief
- Simplified power supply and through-wiring
- Knockout membrane in-feeds
- Conduit entries above the prefabricated ceiling

IBTronic XL Drillbox

for later installation of prefabricated plates

B 90°C halogenfrei

Light installation

- Carry out positioning of light by means of centre hole, make core hole drilling with Ø 82 mm from above into the prefabricated ceiling.
- Fix enclosure on the prefabricated ceiling and carry out piping
- Transformer installation up max. 150 VA comfortably due to the Ø 82 mm core hole
- For the installation of VDE approved luminaires according to DIN EN 60598 and with F or WW marking Power luminaire max. 50 W

IBTronic XL Drillbox

- Universal installation housing for easy mounting in prefabricated ceilings 45-70 mm thick. Cost-intensive plastering up is a thing of the past.
- For the installation of NV / HV / LED-luminaires
- For counter hole drilling Ø 82 mm
- Simplified light installation by means of light adaptor for low-voltage and high-voltage lamps

- The 2-part light adapter can easily compensate ceiling thickness of 45-70 mm without any problem. The ceiling aperture is 76 mm, the outer ring diameter must be at least 85 mm. The retaining springs are locked in the light adapter. The light unit is mounted until the cover ring of the lamp is flush.

Introducing a flexible system

- 8 integrated conduit entries for rigid and corrugated conduits
  976 801 01 (4 x M20, 4 x M25)
  976 801 02 (4 x M16, 4 x M19)
- Integral conduit stopper and strain relief
- Simplified power supply and throughwiring
- Knockout membrane in-feeds Conduit entries above the prefabricated ceiling

IBTronic

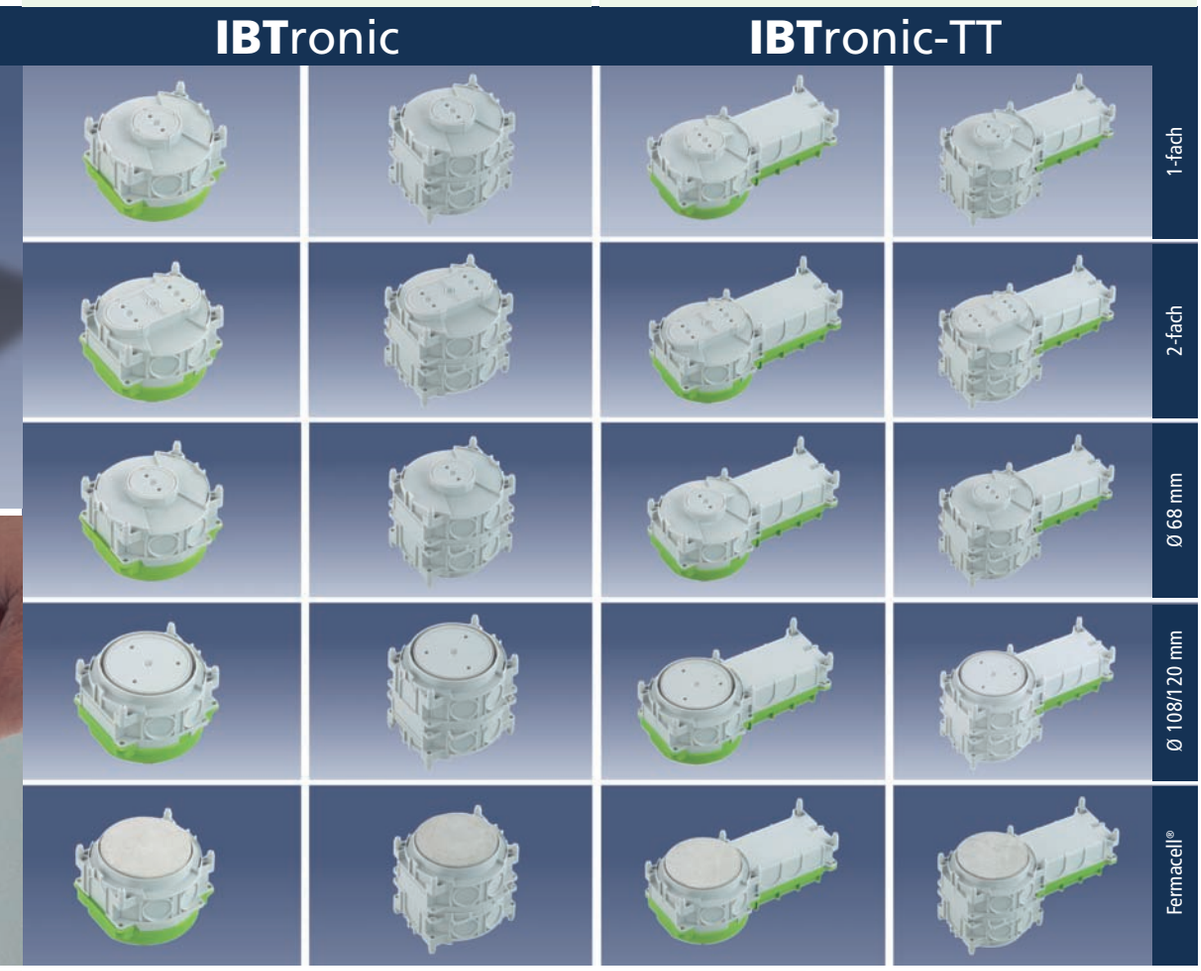
Stable as concrete

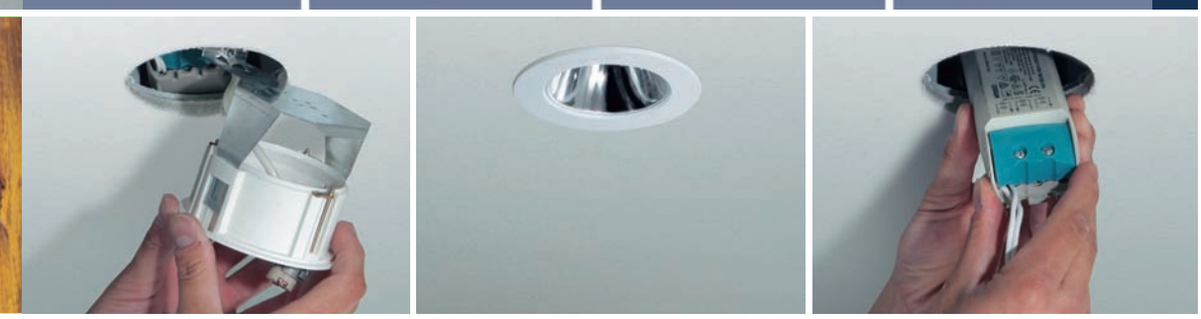
IP30 | B | 90°C | halogenfrei

▲ **Precisely aligned light installation with the Fermacell® plate ceiling outlet.**

▲ **M25/M32 conduit stoppers integrated in the housing prevents the conduits from being pushed right through during insertion**

▲ **Simple assembly in site concrete ceilings and walls and prefabricated components**





▲ **IBTronic makes it possible to integrate halogen lighting, loudspeakers and LED lights, as well as high-quality electronic components into concrete ceilings in a convenient and elegant manner.**

▲ **IBTronic-TT with additional connection space for the installation of electronic safety transformers**

1-way receptacle:
Enables the use of numerous standard flush-mounted devices, e.g. sockets and switches.

2-way receptacle:
Enables the use of numerous standard flush-mounted devices, e.g. sockets and switches.

Ceiling outlet:
Ø 68 mm
Typical installation dimensions of numerous NV luminaires

Ø 108 / 120 mm
According to the requirements this option can be opened in two sizes:
- Ø 108 mm
The connecting elements between the 18 mm and 120 mm aperture are simple separated with a knife. Then, the 108 mm aperture can simply be knocked out with a hammer.
- Ø 120 mm:
This aperture can directly be carried out with the hole cutter (order n° 925 121 1).

Fermacell®-Plate
The universal outlet, variable up to Ø 100 mm. The required installation aperture is defined on the site. For this purpose, the required section is simply cut directly in the Fermacell® plate by means of an adequate hole cutter.

IBTronic XL

255 x 280 x 130 mm

Description	Order No.	Packing Qty
Universal installation housing with additional connection space, e.g. for installing an electronic safety transformer **(*)** for pre-cast concrete structures, halogen-free, for installing NV/HV/LED luminaires **(*1)** and loudspeakers. Suitable for adhesive and nail fixing		
IPX4 · B · 90°C · halogen-free		
IBTronic XL H 185 F Outlet aperture: Fermacell ® plasterboard, variable to max. Ø 150 mm, 8 combi-conduit entries 4 x M20, 4 x M25, integrated conduit stopper for pipes M20, M25	976 604 01	6/1
IBTronic XL H 185 FE Outlet aperture: Fermacell ® plasterboard, variable to max. Ø 150 mm, 8 combi-conduit entries 4 x 16 mm, 4 x 19 mm, integrated conduit stopper for pipes 16 mm, 19 mm	976 604 02	6/1

IBTronic XL Drillbox

255 x 280 x 92 mm

Universal installation housing with additional connection space, e.g. for installing an electronic safety transformer **(*)** for pre-cast concrete structures, halogen-free, for installing NV/HV/LED luminaires **(*1)**. Suitable for subsequent installation in prefabricated ceilings 45-70 mm with Ø 82 mm core drilling.		
B · 90°C · halogen-free		
IBTronic XL Drillbox Outlet aperture: Ø 108/120 mm, Outlet aperture Ø 76 mm, ORD (Outer Ring Diameter), min. Ø 85 mm, 8 combi-conduit entries 4 x M20, 4 x M25, integrated conduit stopper for pipes M20, M25, max. 50W Alu!	976 801 01	6/1
IBTronic XL Drillbox E Outlet aperture: Ø 108/120 mm, Outlet aperture Ø 76 mm, ORD (Outer Ring Diameter), min. Ø 85 mm, 8 combi-conduit entries 4 x 16 mm, 4 x 19 mm, integrated conduit stopper for pipes 16 mm, 19 mm, max. 50W Alu!	976 801 02	6/1

(*) Electronic transformers up to max. 150 W (e.g. OSRAM HALOTRONIC®, HTM 150 Mouse).
(*1)For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with F or W W marking.
Maximum installation height Low-voltage luminaires: 105 mm, High-voltage luminaires: 110 mm, Lamp wattage rating max. 50 W

Accessories

Description	Order No.	Packing Qty
Recommended accessories: IBTronic XL		
FPD 185 Plasterboard for the retrospective installation into IBTronic XL H185 F, H185 FE	979 802 01	10/1
HW LFR-120 will fit any commercial drill chuck, diameter 120 mm Ø, Cutting depth 40mm	925 121 01	1/1

Accessories

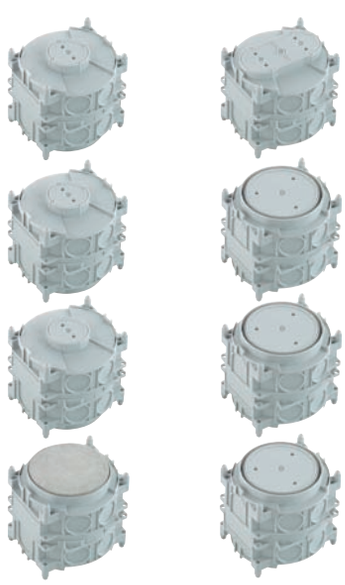
Recommended accessories: IBTronic XL Drillbox		
LMK 76 for subsequent installation in IBTronic XL Drillbox	979 803 01	1/1

IBTronic
150 x 150 x 106 mm

Entries:
4 x up to Ø 34 mm,
integrated conduit stopper
for M25, M32 conduits

Description		Order No.	Packing Qty
Universal installation housing for site cast concrete or pre-cast concrete structure, for the installation of NV/HV/LED-luminaires **(*)** and loudspeakers and high-quality electronic components. Suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 140 mm, wall installation with IBT support spars			
IP30 B 90°C halogen-free			
IBTronic H120-S1 Outlet aperture:	1-way receptacle	976 001 01	10/1
IBTronic H120-S2 Outlet aperture:	2-way receptacle	976 002 01	10/1
IBTronic H120-68 Outlet aperture:	Ø 68 mm	976 005 01	10/1
IBTronic H120-0 Selectable outlet aperture:	Ø 108/120 mm	976 003 01	10/1
IBTronic H120-P Selectable outlet aperture:	Fermacell ® plasterboard, variable up to Ø 100 mm	976 004 01	10/1

IBTronic
150 x 150 x 151 mm



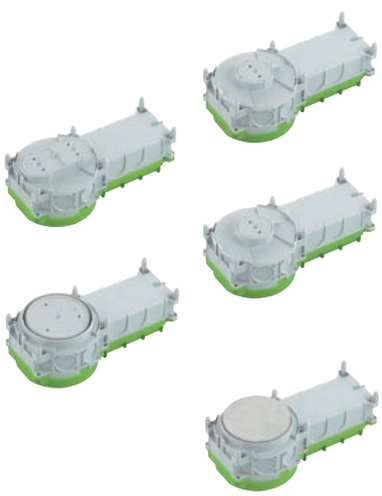
Entries:
8 x up to Ø 34 mm,
integrated conduit stopper
for M25, M32 conduits

Universal installation housing for site cast concrete or pre-cast concrete structure, for the installation of NV/HV/LED-luminaires **(*1)** and loudspeakers and high-quality electronic components. Suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 180mm, wall installation with IBT support spars			
IP30 B 90°C halogen-free			
IBTronic H120-S1-S2 Selectable outlet aperture:	1-way or 2-way receptacle	976 101 01	12/1
IBTronic H120-S1-0 Selectable outlet aperture:	1-way receptacle or Ø 108 / 120 mm	976 103 01	12/1
IBTronic H120-68-O Selectable outlet aperture:	Ø 68 mm or Ø 108 / 120 mm	976 105 01	12/1
IBTronic H120-P-O Selectable outlet aperture:	Fermacell ® plasterboard, variable up to max. Ø 100 mm or Ø 108 / 120 mm	976 104 01	12/1

(*) For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with F or WW marking.
Maximum installation height Low-voltage luminaires: 75 mm, High-voltage luminaires: 80 mm, Lamp wattage rating max. 50 W

(*1) For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with F or WW marking.
Maximum installation height Low-voltage luminaires: 120 mm, High-voltage luminaires: 125 mm, Lamp wattage rating max. 50 W

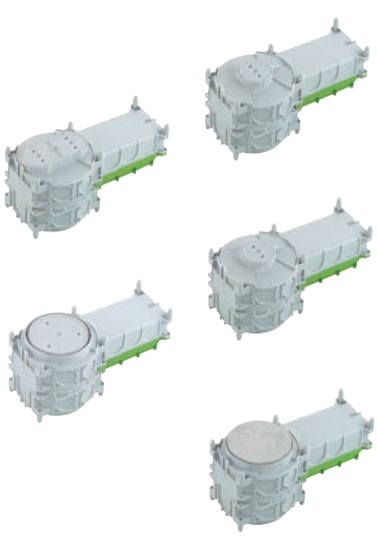
IBTronic TT
306 x 150 x 106 mm



Entries:
6 x up to Ø 34 mm,
integrated conduit stopper
for M25 conduits,
M32

Description		Order No.	Packing Qty
Universal installation housing with separate wiring space (e.g. for the installation of a safety transformer) **(*)** for site cast or pre-cast concrete structures, for the installation of NV/HV/LED-luminaires **(*1)** and loudspeakers and high-quality electronic components. Suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 140 mm, wall installation with IBT support spars			
IP30 B 90°C halogen-free			
IBTronic H120TT-S1 Outlet aperture:	1-way receptacle	976 201 01	8/1
IBTronic H120TT-S2 Outlet aperture:	2-way receptacle	976 202 01	8/1
IBTronic H120TT-68	Outlet aperture: Ø 68 mm	976 205 01	8/1
IBTronic H120TT-0	Outlet aperture optional: Ø 108/120 mm	976 203 01	8/1
IBTronic H120TT-P Selectable outlet aperture:	Fermacell ® plasterboard, variable up to Ø 100 mm	976 204 01	8/1

IBTronic TT
306 x 150 x 151 mm



Entries:
6 x up to Ø 34 mm,
integrated conduit stopper
for M25 conduits,
M32

Description		Order No.	Packing Qty
Universal installation housing with separate wiring space (e.g. for the installation of a safety transformer) **(*)** for site cast or pre-cast concrete structures, for the installation of NV/HV/LED-luminaires **(*1)** and loudspeakers and high-quality electronic components. Suitable for adhesive fixing and opposing shuttering, for installation in ceilings from 180mm, wall installation with IBT support spars			
IP30 B 90°C halogen-free			
IBTronic H120TT-S1-0 Outlet aperture:	1-way receptacle	976 301 01	6/1
IBTronic H120TT-S2-0 Outlet aperture:	2-way receptacle	976 302 01	6/1
IBTronic H120TT-68-O Outlet aperture:	Ø 68 mm	976 305 01	6/1
IBTronic H120TT-O-O Outlet aperture optional:	Ø 108/120 mm	976 303 01	6/1
IBTronic H120TT-P-O Selectable outlet aperture:	Fermacell ® plasterboard, variable up to max. Ø 100 mm or Ø 108 / 120 mm	976 304 01	6/1

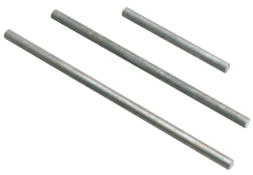
(*) For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with F or WW marking.
Maximum installation height Low-voltage luminaires: 75 mm, High-voltage luminaires: 80 mm, Lamp wattage rating max. 50 W

(*1) For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with F or WW marking.
Maximum installation height Low-voltage luminaires: 120 mm, High-voltage luminaires: 125 mm, Lamp wattage rating max. 50 W

Accessories

Description	Order No.	Packing Qty
Recommended accessories:		
K0 K15 BL Blank cleat for oposing formwork 2 off required per installation box	979 532 01	200/1
NS 35-90 Standard rail 35 mm, for the retrospective installation into IBTronic H120 S2, IBTronic H120 TT S2	979 800 01	200/1
FPD 120 Plasterboard for the retrospective installation into H120 P, IBTronic H120 P O, IBTronic H120TT P, IBTronic H120TT P O	979 801 01	10/1
HW LFR-120 will fit any commercial drill chuck, diameter 120 mm Ø, cutting depth 40mm	925 121 01	1/1

STH Support spars



Support spars for various wall thicknesses in opposing formwork, always used in conjunction with blank base or back mounted box,
Supporting spar length = wall thickness minus 1 cm

	Wall thickness	Spar length		
STH 70	8 cm	7 cm	979 570 01	1000/50
STH 90	10 cm	9 cm	979 590 01	600/50
STH 100	11 cm	10 cm	979 600 01	600/50
STH 110	12 cm	11 cm	979 610 01	600/50
STH 130	14 cm	13 cm	979 630 01	500/50
STH 140	15 cm	14 cm	979 640 01	500/50
STH 150	16 cm	15 cm	979 650 01	400/50
STH 170	18 cm	17 cm	979 670 01	400/50
STH 190	20 cm	19 cm	979 690 01	400/50
STH 230	24 cm	23 cm	979 730 01	300/50
STH 240	25 cm	24 cm	979 740 01	200/50
STH 290	30 cm	29 cm	979 790 01	200/50

NAH IBTronic H120

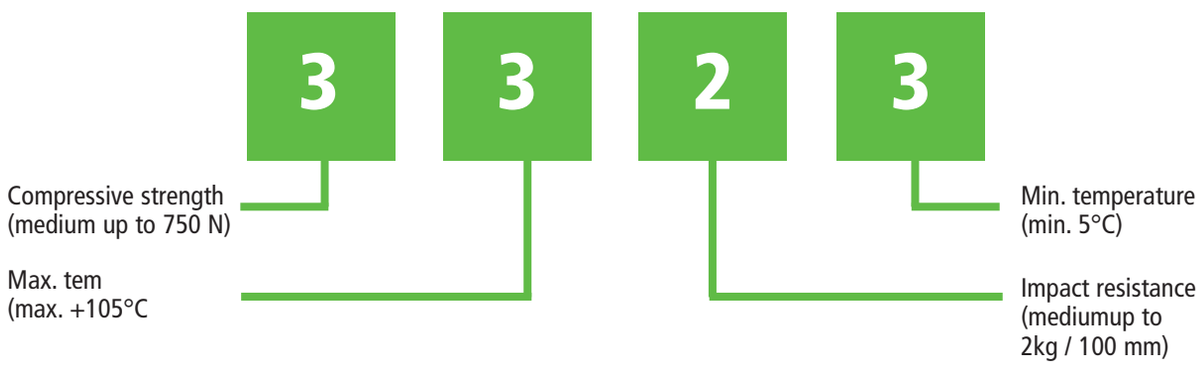
NAH IBTronic H120
for nail fixing the IBTronic-P universal installation housings in site cast concrete applications

NAH IBTronic H120	979 218 01	24/1

Suitable installation conduits

IBT-boxes and boxes are equally suitable for smooth and corrugated installation conduits.
DIN EN 50086 applies here. The nominal sizes have the following external gradations (to DIN/EN 60423) in mm:
EN 16, EN 20, EN 25, EN 32, EN 40, EN 50, and EN 63
With these new standards the designations also alter:
From the former letter code (e.g. "AS" = heavy compressive stress) a numeric coding with at least 4 digits is now used, from which the most important properties of the products can be read off, such as compressive strength, impact resistance and lower and upper application temperature. A conduit with the following code would be suitable for installation in concrete:

Classification code for conduits to DIN EN 50086



First character: compressive strength

1 = very light	2 = light	3 = medium	4 = heavy	5 = very heavy
125 N	320 N	750 N	1250 N	4000 N

Second character: impact resistance (drop energy)

1 = very light	2 = light	3 = medium	4 = heavy	5 = very heavy
0.5kg/100mm	1kg/100mm	2kg/100mm	2kg/300mm	6.8kg/300mm

Third character: Minimum temperature range Transport, Use, Installation

1 = + 5°C	2 = - 5°C	3 = - 15°C	4 = - 25°C	5 = - 45°C

Fourth character: Maximum temperature range Transport, Use, Installation

1 = + 60°C	2 = +90°C	3 = +105°C	4 = +120°C	5 = +150°C

You can get further information e.g. from the conduit manufacturers:
Fränkische Rohrwerke Gebr. Kirchner GmbH & Co. KG, Hellinger Str. 1, 97486 Königsburg / Bayern, telephone: +49 (0) 95 26 / 88-0
Hegler Plastik GmbH Hegler Str. 8, 97714 Oerlenbach, telephone: +49 (0) 97 25/66-0
Pipelife Deutschland GmbH Steinfeld 40, 26160 Bad Zwischenahn, telephone: +49 (0) 44 03 / 6 05-0
Pipelife Austria GmbH & Co. KG IZ NO-Süd, Straße 1, A-2355 Wiener Neudorf, telephone: +43 (0) 22 36 / 67 02 - 0

Table 1: Properties of the materials used for the IBT range

Material:	Products used in:	Weak acid	Strong acid	Weak alkali	starke Lauge	Alcohol	Petrol	Benzene	Mineral oil	Diesel	Ammonia	Vegetable fats	Animal fats	Free of halogen heavy metals, PVC an silicon	Burning characteristics to VDE 0471 / EN 60695 / UL 94
Polystyrene, impact resistant	UP 015-distribution set, VD Sealing cap	●	◗	●	●	●	⊗	⊗	◗	⊗	●	◗	◗	Yes[1]	960°C / V-2
Polypropylen	IBT boxes IBTronic IBTronic-TT IBTronic XL IBTronic XL Drillbox	●	◗	●	◗	●	◗	◗	◗	●	●	●	●	Yes	650°C / HB

● = resistant ◗ = limited resistance ⊗ = not resistance

1) The base material is halogen-free. Only the flame-proofing additive added to the base material has a very low percentage (up to approximately 6%). All data is according to the details given by the manufacturers, with no guarantee.

Manufacturing process in concrete structures

1. Large panel structures
means the industrial production of wall and ceiling elements in a concrete factory and is done by pouring the concrete into horizontal or vertical formwork (battery formwork, vibratory and tilting tables, etc.). The pre-cast concrete components are transported to the building site and assembled there. The production of partially finished ceilings (filigree ceilings) saves setting up ceiling formwork on site. Installation boxes U 86 and U 120 can for example be inserted into the filigree ceilings.
They protrude from the ceiling panel and are fitted with installation conduits on the building site.

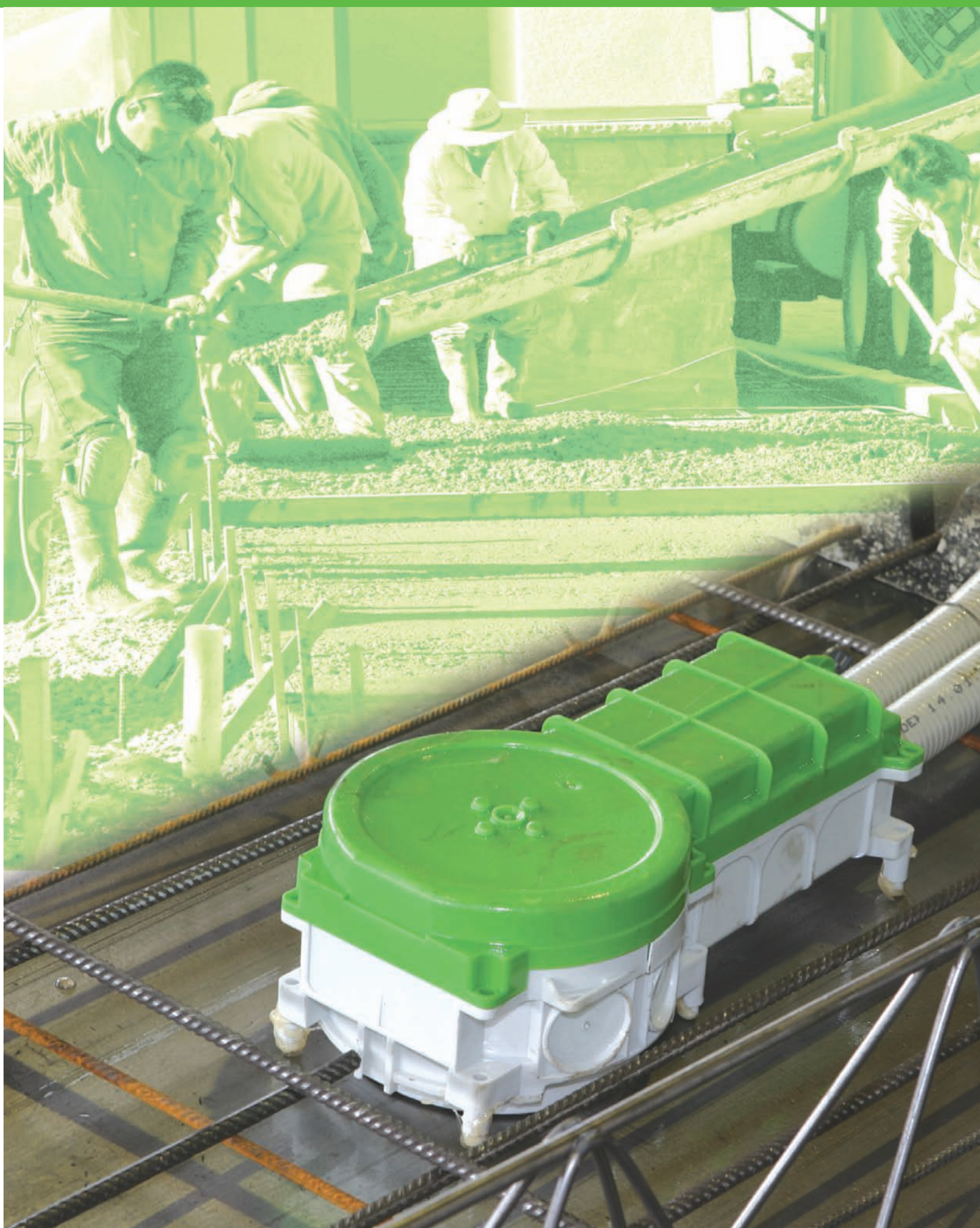
2. Site cast or poured concrete
means an individual installation on site. Here a distinction is made between horizontal formwork (e.g. ceiling formwork) with only one formwork, side and vertical formwork with two formwork sides (working formwork with opposing formwork).

Working formwork
Fitting the boxes and receptacles onto the first, existing formwork (working formwork) is ideal because it is particularly easy and quick. After fitting the conduit into the system and inserting the stell reinforcement, the second formwork (opposing formwork) is set to the distance required for the wall. After pouring and setting of the concrete, the working formwork removed, at the same time pulling off the front faces of the receptacles and boxes. Now the operating equipment (switches and plug sockets) can be fitted.

Opposing formwork
When installing the boxes and receptacles opposite to the existing formwork, we speak of opposing formwork. Here firstly the blank base is mounted on the working formwork, then the boxes and receptacles are set to the distance required for the wall with support spars. The length of the support spar for this is "wall thickness minus 1 cm", regardless os which boxes and receptacles are used.
The only thing important for the length of the support spar is the thickness of the wall! The necessary stability for the system is achieved due to the pressure exercised on the structure as the second formwork is "positioned".

N.B: The formwork standing time needed for the concrete to set must be complied with.

All details are given without guarantee. We reserve the right to make improvements in the interest of technical progress..



AKe / AK / AKi Distribution Boards
3 - 70 modules

- Design and functionality characterise the distribution boards of the AK housing system
- You will find distribution boards with 3 up to 70 modules as well as empty enclosures and meter housings

- Pre-assembled IP 65 sealing membranes (AK/AKi)
- Individual transparent doors can be lead sealed, blanking off of individual rows
- By activating the lock bolt set (accessories starting with AK 28), several rows of switches can be safely locked with the help of one single lock.

- With 150 mm distance between rails (from AK 28), the distribution boards provide generous space for wiring
- Can be combined with other AK components (from AK 14)
- Screwless PE/N terminals (from AK 14) enable a safe and time-saving wiring

- Wide range of accessories included
- Unlimited permutations of AK components give a variety of options when installing

iQ - **I**ndustrial **Q**uality
All products of series that are specially designed for industrial applications and end in ***"-I"*** can be identified by the blue background.

AKe / AK / AKi Distribution Boards
Contents

	Ingress protection	way units	Types	Page
	IP 55	**3 - 8 modules**	AKe	Pages 152-157
	IP 65	**3 - 12 modules**	AK Compact	Pages 158-163
	IP 65	**3 - 12 modules**	AKi Compact	Pages 158-163
	IP 65	**14 - 56 modules**	AK	Pages 164-171
	IP 65	**14 - 56 modules**	AKi	Pages 164-171
	IP 65	**14 - 70 modules**	AK Plus	Pages 172-177
	IP 65	**14 - 70 modules**	AKi Plus	Pages 172-177
	General accessories for AKe / AK / AKi			Pages 178-185

AKe Distribution Boards

IP55 | 3 - 48 | IK07 | 400V AC | halogen-free

- 3 - 48 modules
- Including PE/N terminals

- Can be combined with additional housings of the AK-system

- Individual transparent doors can be lead sealed, blanking off of individual rows

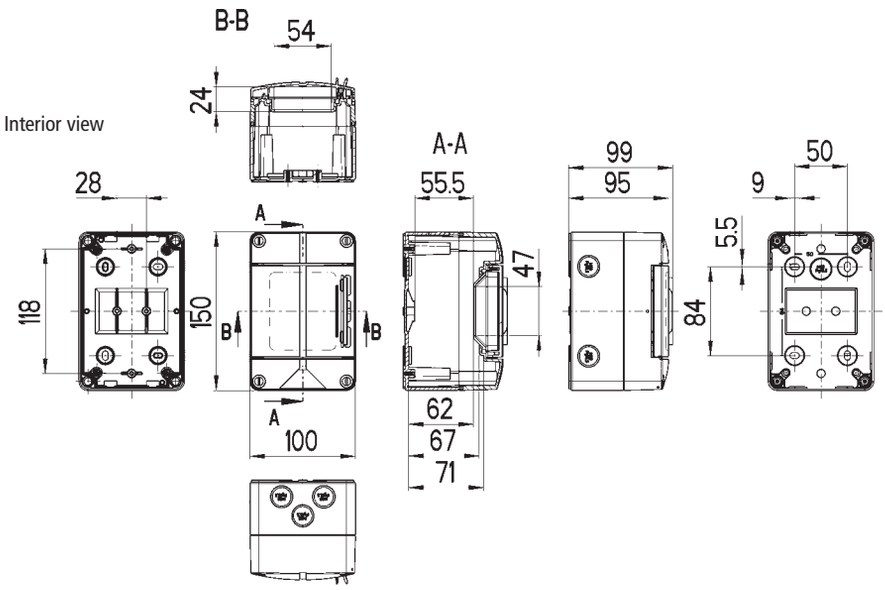
- Including stepped nipples for cable entry

AKe 03

100 x 150 x 96 mm

Knock-out entries:
top end:
3 x M20
Entries bottom end:
2 x M20/M25
Entries on each side:
2 x M20
Entries on floor:
1 x M20

Description	Order No.	Packing Qty
Distribution Board, 3 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		
IP55 · 3 · IK07 · 400V AC · halogen-free		
AKe 03 PE/N terminal 2x4-pole, 6/16 mm²	735 503 01	16/1
AKe 03-L without PE/N terminals	735 603 01	16/1

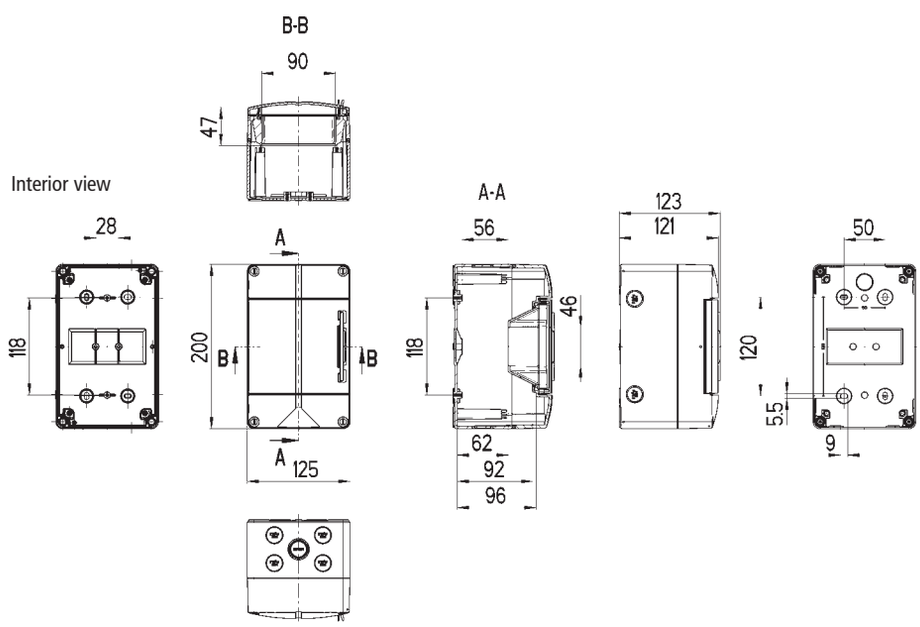


AKe 05

125 x 200 x 122 mm

Knock-out entries:
top/bottom end:
4 x M20
1 x M20/M25
Entries on each side:
2 x M20
Entries on floor:
1 x M20

Distribution Board, 5 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		
IP55 · 5 · IK07 · 400V AC · halogen-free		
AKe 05 PE/N terminal 2x5-pole, 6/16 mm²	735 505 01	9/1
AKe 05-L without PE/N terminals	735 605 01	9/1

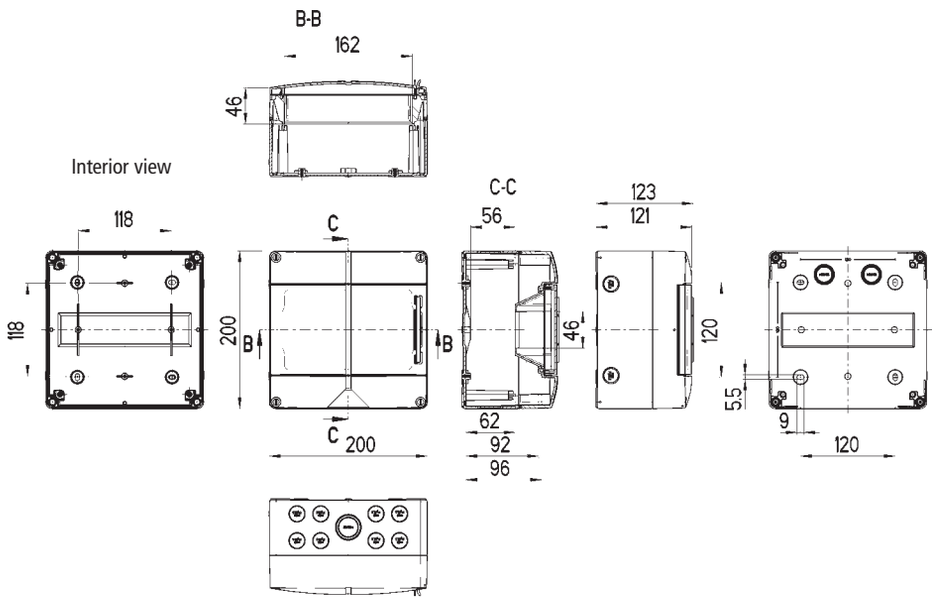


AKe 09

200 x 200 x 122 mm

Knock-out entries:
top/bottom end:
8 x M20
1 x M25/M32
Entries on each side:
2 x M20
Entries on floor:
1 x M20/M25

Description	Order No.	Packing Qty
Distribution Board, 9 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		
IP55 · 9 · IK07 · 400V AC · halogen-free		
AKe 09 PE/N terminal 2x7-pole, 6/16 mm²	735 509 01	6/1
AKe 09-L without PE/N terminals	735 609 01	6/1

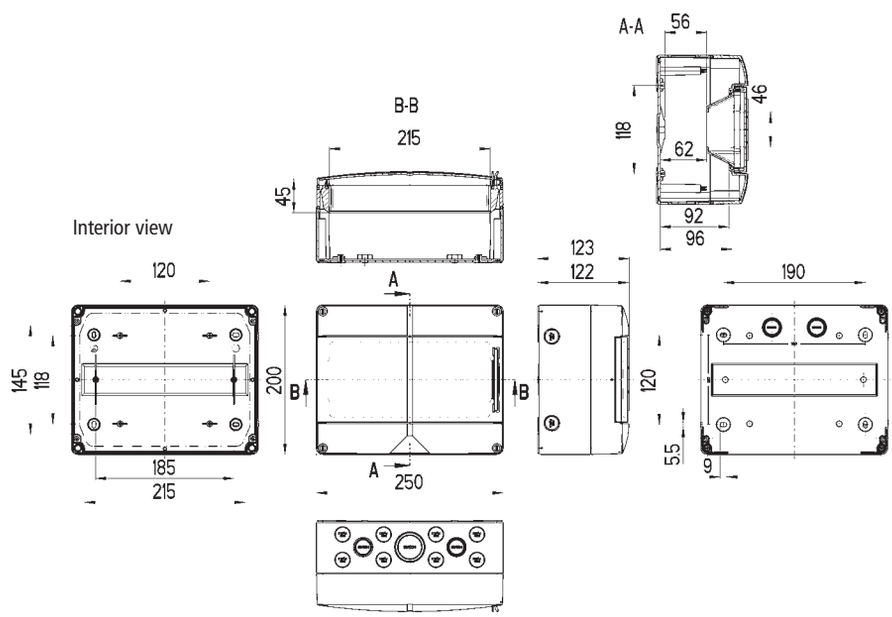


AKe 12

250 x 200 x 122 mm

Knock-out entries:
top/bottom end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
2 x M20
Entries on floor:
2 x M20/M25

Distribution Board, 12 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		
IP55 · 12 · IK07 · 400V AC · halogen-free		
AKe 12 PE/N terminal 2x12-pole, 6/16 mm²	735 512 01	4/1
AKe 12-L without PE/N terminals	735 612 01	4/1

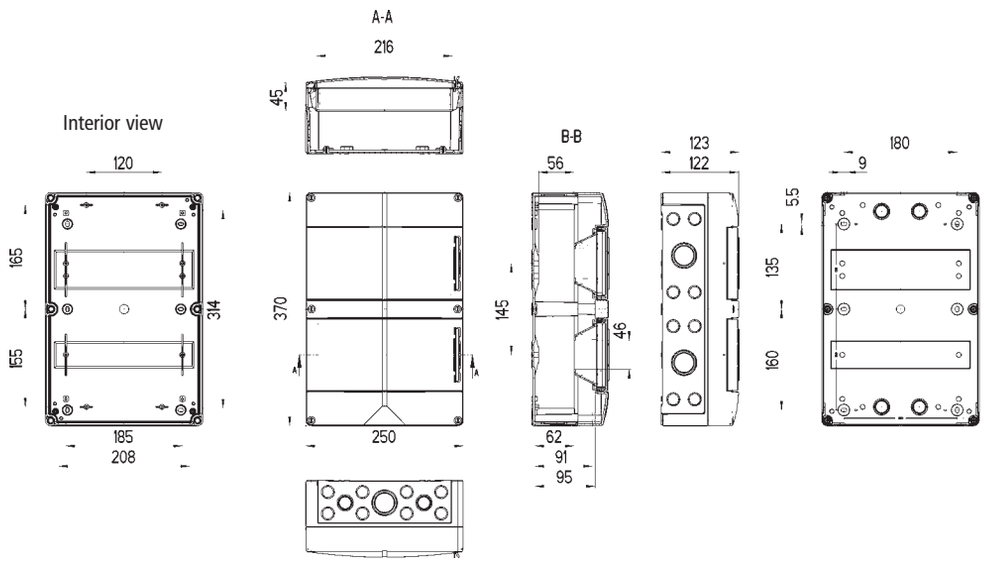


AKe 24

250 x 370 x 122 mm

Knock-out entries:
top/bottom end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40
Entries on floor:
2 x M20/M25

Description	Order No.	Packing Qty
Distribution Board, 2-row, 24 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		
IP55 · 24 · IK07 · 400V AC · halogen-free		
AKe 24 PE/N terminal 2 x 16-pole, 6/16 mm²	735 724 01	1/1
AKe 24-L without PE/N terminals	735 824 01	1/1

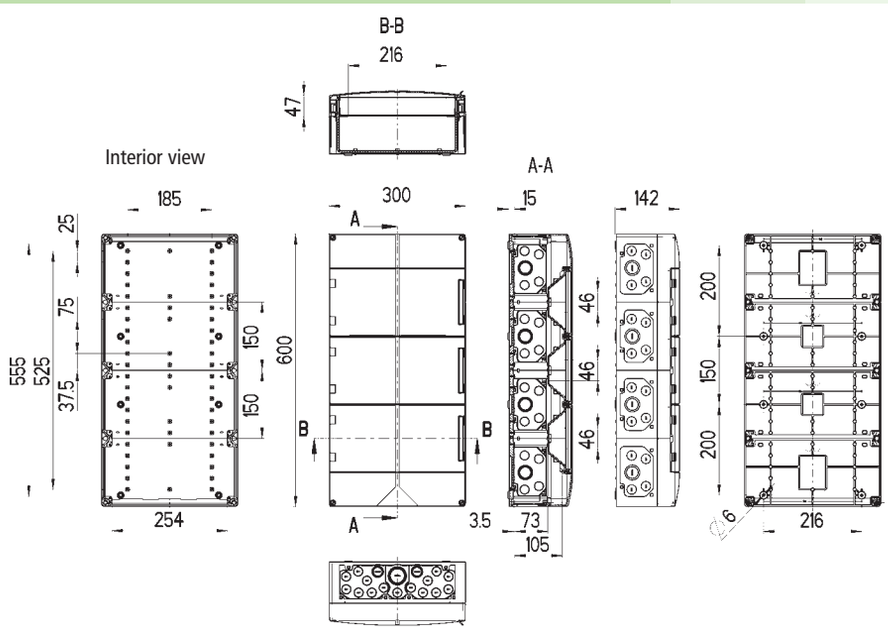


AKe 36

300 x 600 x 142 mm

Knock-out entries:
top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40

Distribution Board, 3-row, 36 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		
IP55 · 36 · IK07 · 400V AC · halogen-free		
AKe 36 PE/N terminal 2 x 25-pole, 6/16/25mm²	735 536 01	1/1
AKe 36-L without PE/N terminals	735 636 01	1/1



AKe 48

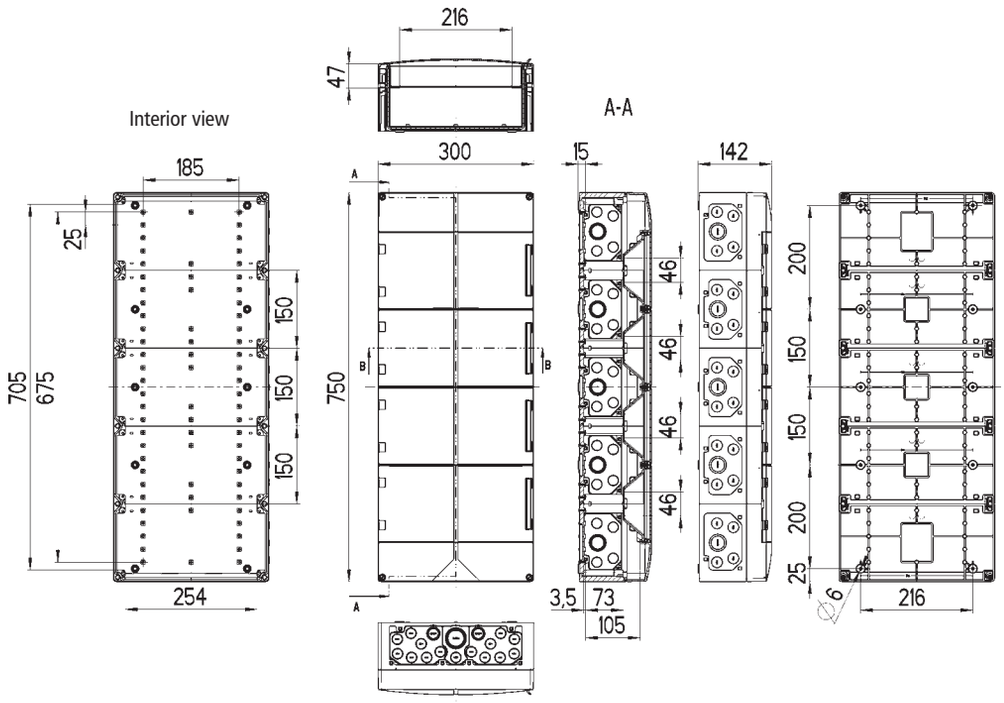
300 x 750 x 142 mm

Description	Order No.	Packing Qty
Distribution Board, 4-row, 48 modules, U_i=400V, 150 mm rail spacing, masking and labelling strips, insulating seals, additional double-membrane seals		

IP55 | 48 | IK07 | 400V AC | halogen-free

AKe 48 PE/N terminal 2 x 25-pole, 6/16/25mm²	735 548 01	1/1
AKe 48-L without PE/N terminals	735 648 01	1/1

Knock-out entries:
top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
20 x M20
5 x M20/M25
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40



AK / AKi Compact Distribution Boards

IP65 | 3-24 | IK07 | 400V AC | halogen-free

IP65 | 3-24 | IK08 | 400V AC | halogen-free | Industrial quality

- **Quick installation due to patented sealing membranes**
- **Subsequent assembly of cylinder lock is possible**
- **Special designs on request**
- **Simple combination possibilities (AK / AKi 05 up to AK / AKi 12)**

AK 03
100 x 150 x 96 mm

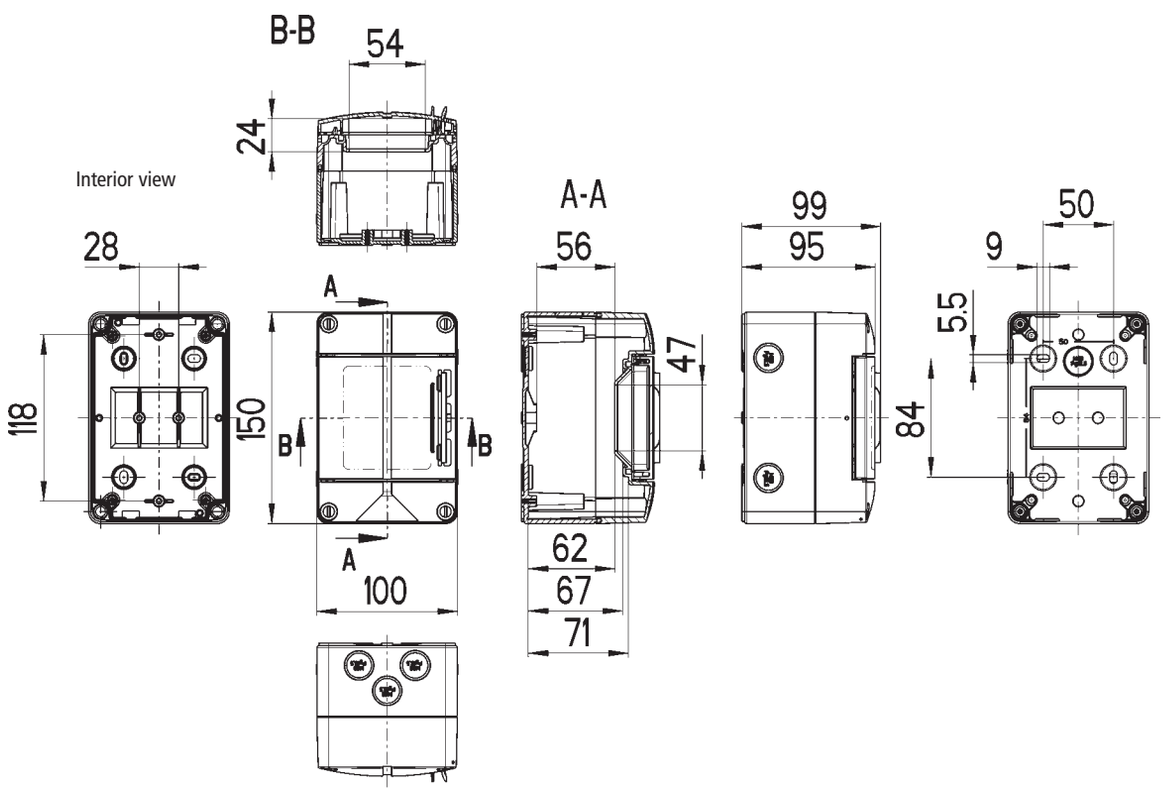
Entries top end:
3 x M20
Entries bottom end:
2 x M20/M25
Entries on each side:
2 x M20
Entries on floor:
1 x M20

Description	Order No.	Packing Qty
Distribution board, 3 modules, Ui=400V, PE/N terminal 2 x 4-pole 6/16 mm², 3 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
IP65 · 3 · IK07 · 400V AC · halogen-free		
AK 03	735 403 01	16/1

AKi 03
100 x 150 x 96 mm

Entries top end:
3 x M20
Entries bottom end:
2 x M20/M25
Entries on each side:
2 x M20
Entries on floor:
1 x M20

Description	Order No.	Packing Qty
Distribution board - **I**ndustrial **Q**uality -, 3 modules, Ui=400V, PE/N terminal 2 x 4-pole 6/16 mm², 3 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
IP65 · 3 · IK08 · 400V AC · halogen-free		
AKi 03	736 403 01	16/1



AK 05

125 x 200 x 122 mm

Entries end:
4 x M20
1 x M20/M25
Entries on each side:
2 x M20
Entries on floor:
1 x M20

Description	Order No.	Packing Qty
Distribution board, 5 modules, Ui=400V, PE/N terminal 2 x 5-pole 6/16 mm², 4 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
IP65 · 5 · IK07 · 400V AC · halogen-free		
AK 05	735 405 01	9/1

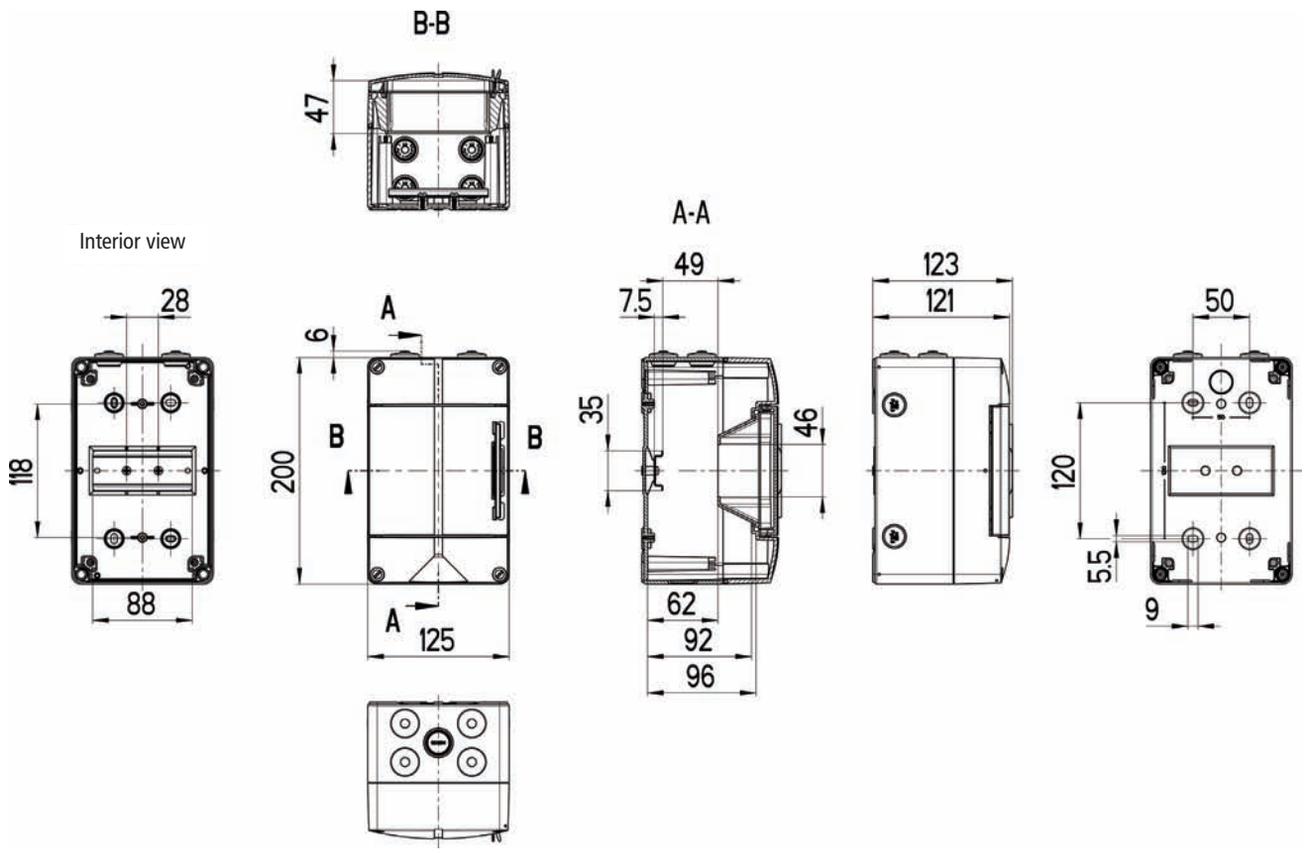
AKi 05

125 x 200 x 122 mm

Entries end:
4 x M20
1 x M20/M25
Entries on each side:
2 x M20
Entries on floor:
1 x M20

Description	Order No.	Packing Qty
Distribution board - **I**ndustrial **Q**uality -, 5 modules, Ui=400V, PE/N terminal 2 x 5-pole 6/16 mm², 4 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
IP65 · 5 · IK08 · 400V AC · halogen-free		
AKi 05	736 405 01	9/1

Interior view



AK 09

200 x 200 x 122 mm

Entries end:
8 x M20
1 x M25/M32
Entries on each side:
2 x M20
Entries on floor:
2 x M20/M25

Description	Order No.	Packing Qty
Distribution board, 9 modules, Ui=400V, PE/N terminal 2 x 7-pole 6/16 mm², 6 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
AK 09	735 409 01	6/1

IP65 | 9 | IK07 | 400V AC | halogen-free

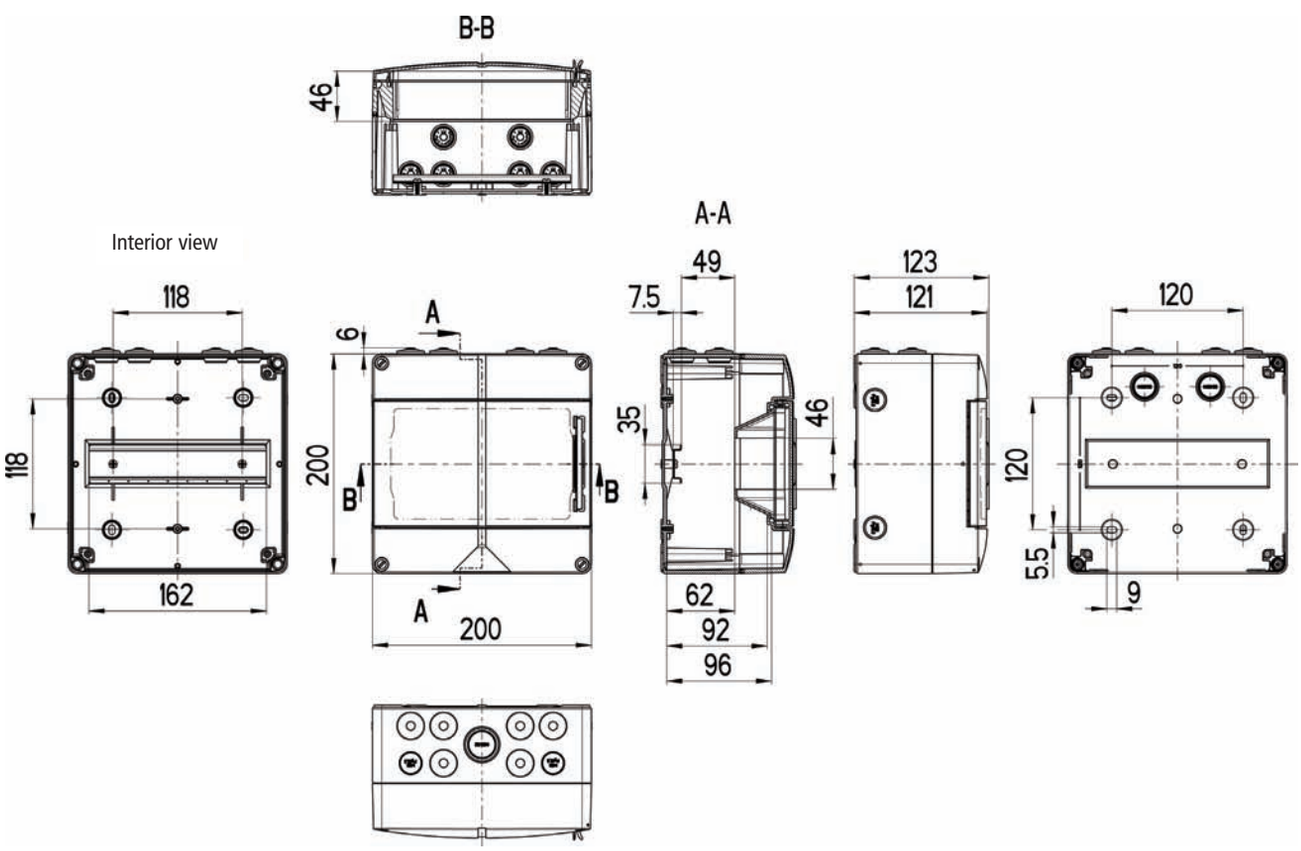
AKi 09

200 x 200 x 122 mm

Entries end:
8 x M20
1 x M25/M32
Entries on each side:
2 x M20
Entries on floor:
2 x M20/M25

Description	Order No.	Packing Qty
Distribution board - **I**ndustrial **Q**uality -, 9 modules, Ui=400V, PE/N terminal 2 x 7-pole, 6/16 mm², 6 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
AKi 09	736 409 01	6/1

IP65 | 9 | IK08 | 400V AC | halogen-free



AK 12

250 x 200 x 122 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
2 x M20
Entries on floor:
2 x M20/M25

Description	Order No.	Packing Qty
Distribution board, 12 modules, Ui=400V, PE/N terminal 2 x 12-pole, 6/16 mm², 8 elastic entries on top, Masking and labelling strips, insulating seals, additional double-membrane seals		
IP65 · 12 · IK07 · 400V AC · halogen-free		
AK 12	735 412 01	4/1

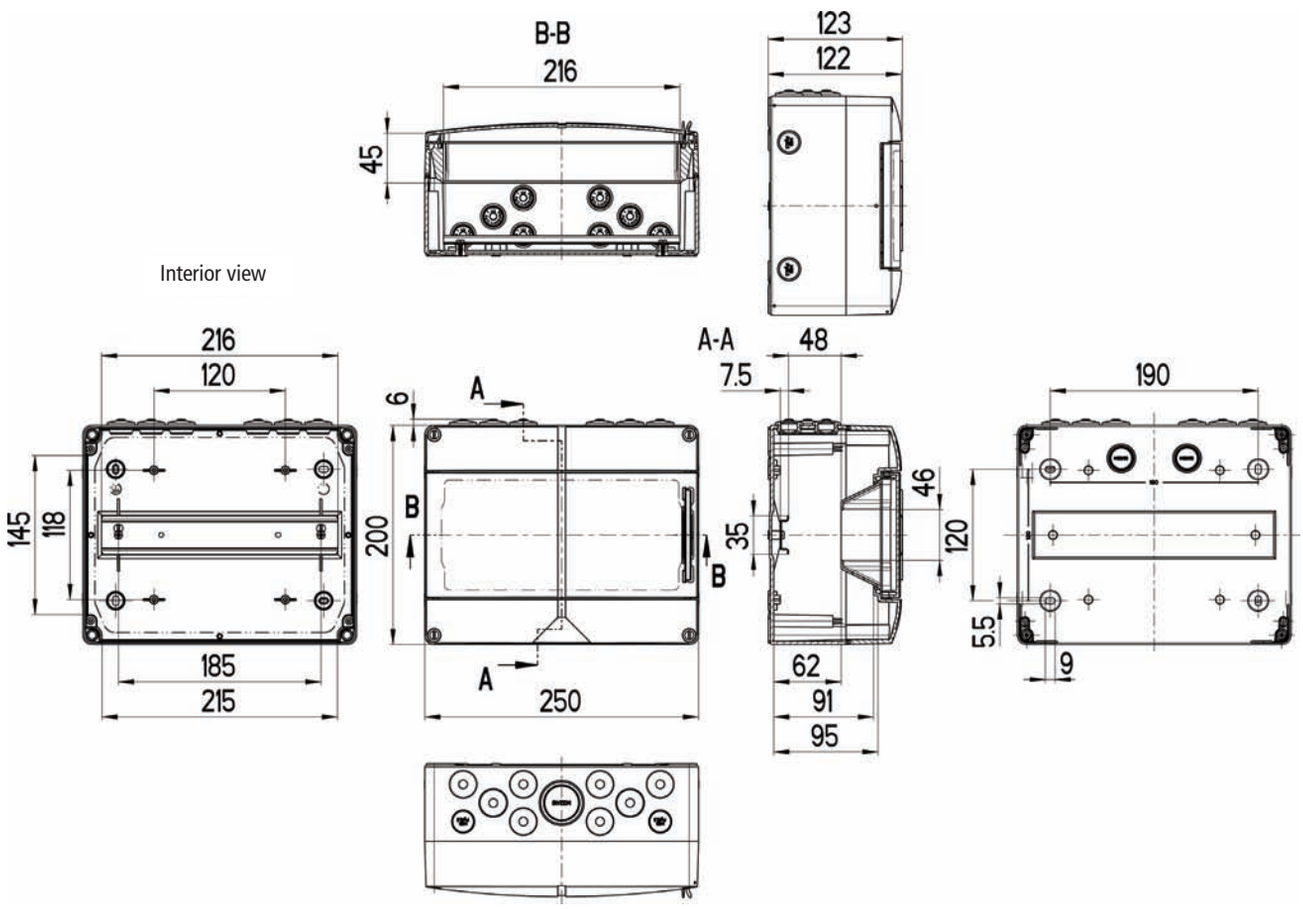
AKi 12

250 x 200 x 122 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
2 x M20
Entries on floor:
2 x M20/M25

Distribution board - **I**ndustrial **Q**uality -, 12 modules, Ui=400V, PE/N terminal 2 x 12-pole, 6/16 mm², 8 elastic entries on top, Masking and labelling strips, insulating seals, additional double-membrane seals		
IP65 · 12 · IK08 · 400V AC · halogen-free		
AKi 12	736 412 01	4/1

Interior view



AK 24

250 x 370 x 122 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40
Entries on floor:
4 x M20/M25

Description	Order No.	Packing Qty
Distribution board, 24 modules, Ui=400V, PE/N terminal 2 x 16-pole 6/16 mm², 8 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
AK 24	735 424 01	2/1

IP65 | 24 | IK07 | 400V AC | halogen-free

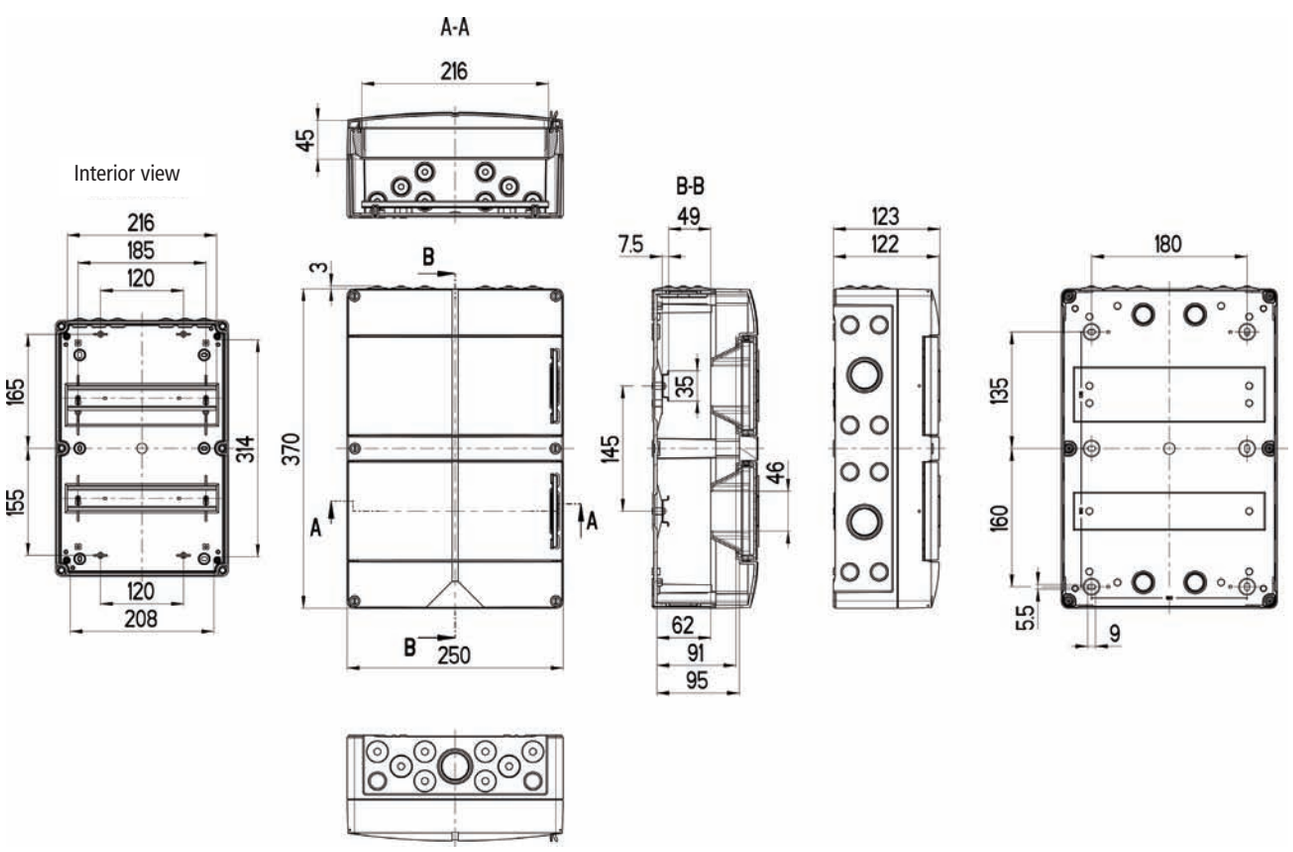
AKi 24

250 x 370 x 122 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40
Entries on floor:
4 x M20/M25

Description	Order No.	Packing Qty
Distribution board - **I**ndustrial **Q**uality -, 24 modules, Ui=400V, PE/N terminal 2 x 16-pole 6/16 mm², 8 elastic entries on top, masking and labelling strips, insulating seals, additional double-membrane seals		
AKi 24	736 424 01	2/1

IP65 | 24 | IK08 | 400V AC | halogen-free



AK / AKi Distribution Boards

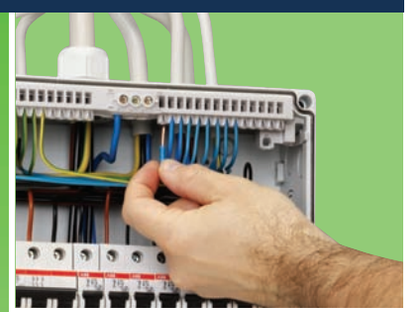
IP65 | 14 70 | IK07 | 400V AC | halogen-free

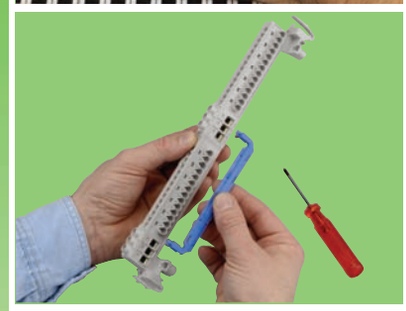
IP65 | 14 70 | IK08 | 400V AC | halogen-free | Industrial quality

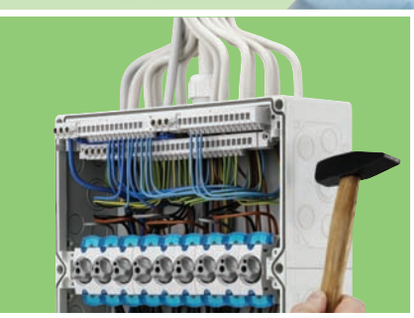
▼ Screwless PE/N terminals

▼▼ Simple division of the N terminal into two N potentials (from AK 28)

▼▼▼ Including cable aperture with hinged compartment for documents







▲ Due to knock-outs, the side panels of the enclosures can be easily detached from outside

▲ Horizontal and vertical combination up to protection class IP 65

▲ Combination connector supplied with standard delivery

▲ By activating the lock bolt several rows of switches can be safely locked with the help of one single lock.

	Description	Order No.	Packing Qty
AK 14 300 x 300 x 142 mm	Distribution Board, 1-row, 14 modules, U_i=400V, screwless PE/N terminal rails each with 3 screwable clamping points, 2.5 - 16 mm², 14 screwless clamping points 1.5 - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories		

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

IP65 | 14 | IK07 | 400V AC | halogen-free

AK 14	735 414 01	1/1

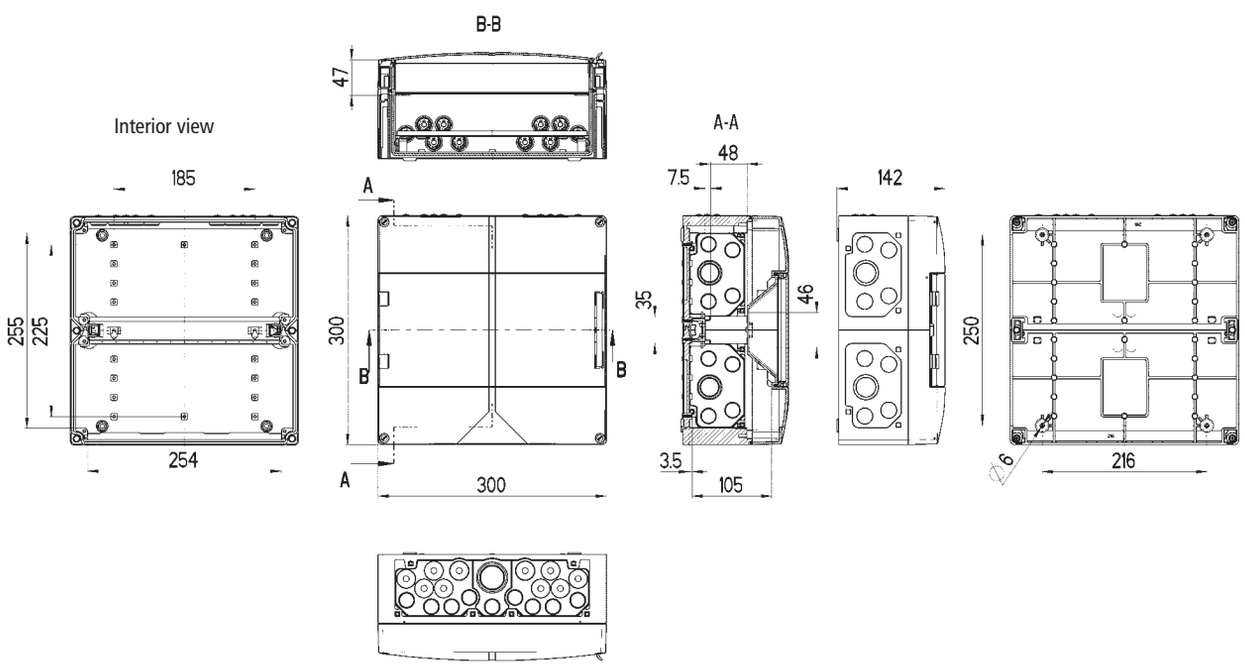
AKi 14
300 x 300 x 142 mm

Distribution board - **I**ndustrial **Q**uality - 1-row, 14 modules, U_i=400V, screwless PE/N terminal rails each with 3 screwable clamping points 2.5 - 16 mm², 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

IP65 | 14 | IK08 | 400V AC | halogen-free

AKi 14	736 414 01	1/1



AK 28

300 x 450 x 142 mm

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

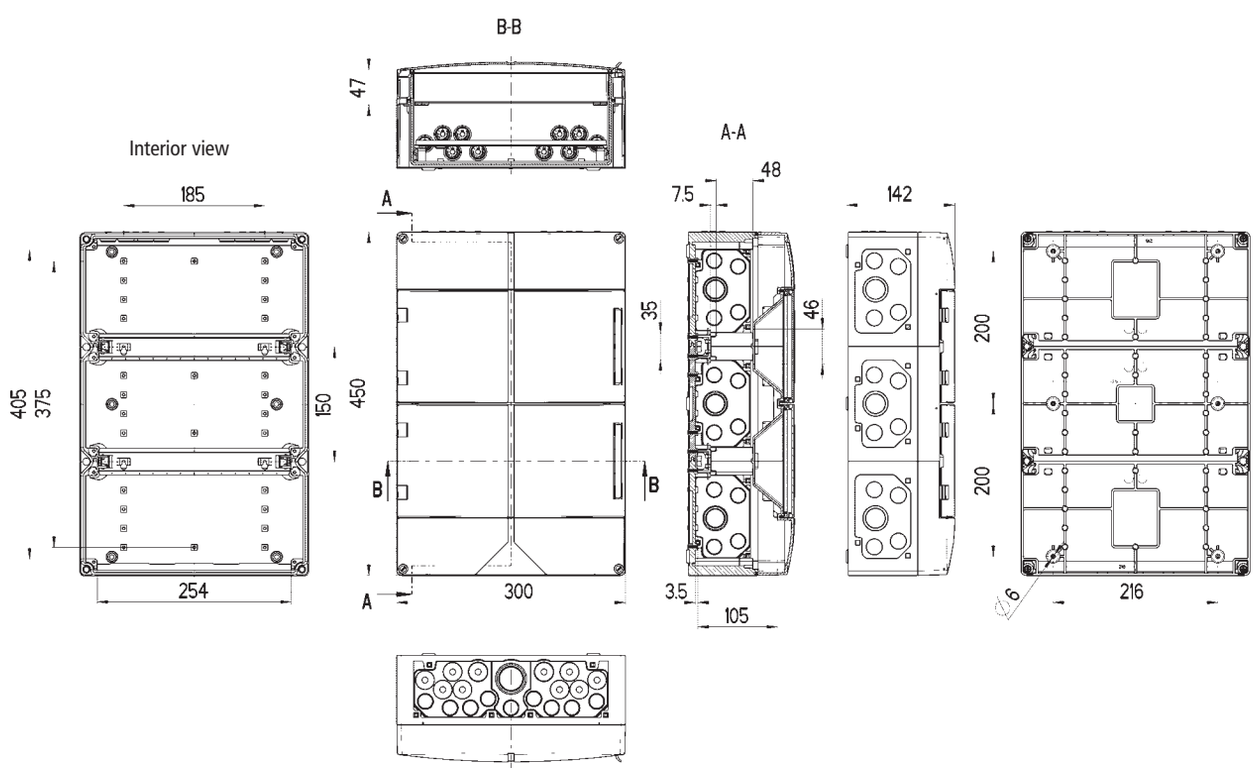
Description	Order No.	Packing Qty
Distribution Board, 2-row, 28 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², with cable covering, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 28 · IK07 · 400V AC · halogen-free		
AK 28	735 428 01	1/1

AKi 28

300 x 450 x 142 mm

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

Distribution board - **I**ndustrial **Q**uality - 2-row, 28 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², with cable covering, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 28 · IK08 · 400V AC · halogen-free		
AKi 28	736 428 01	1/1



AK 42
300 x 600 x 142 mm

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Description

Distribution Board, 3-row, 42 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories

IP65 | 42 | IK07 | 400V AC | halogen-free

	Order No.	Packing Qty
AK 42	735 442 01	1/1

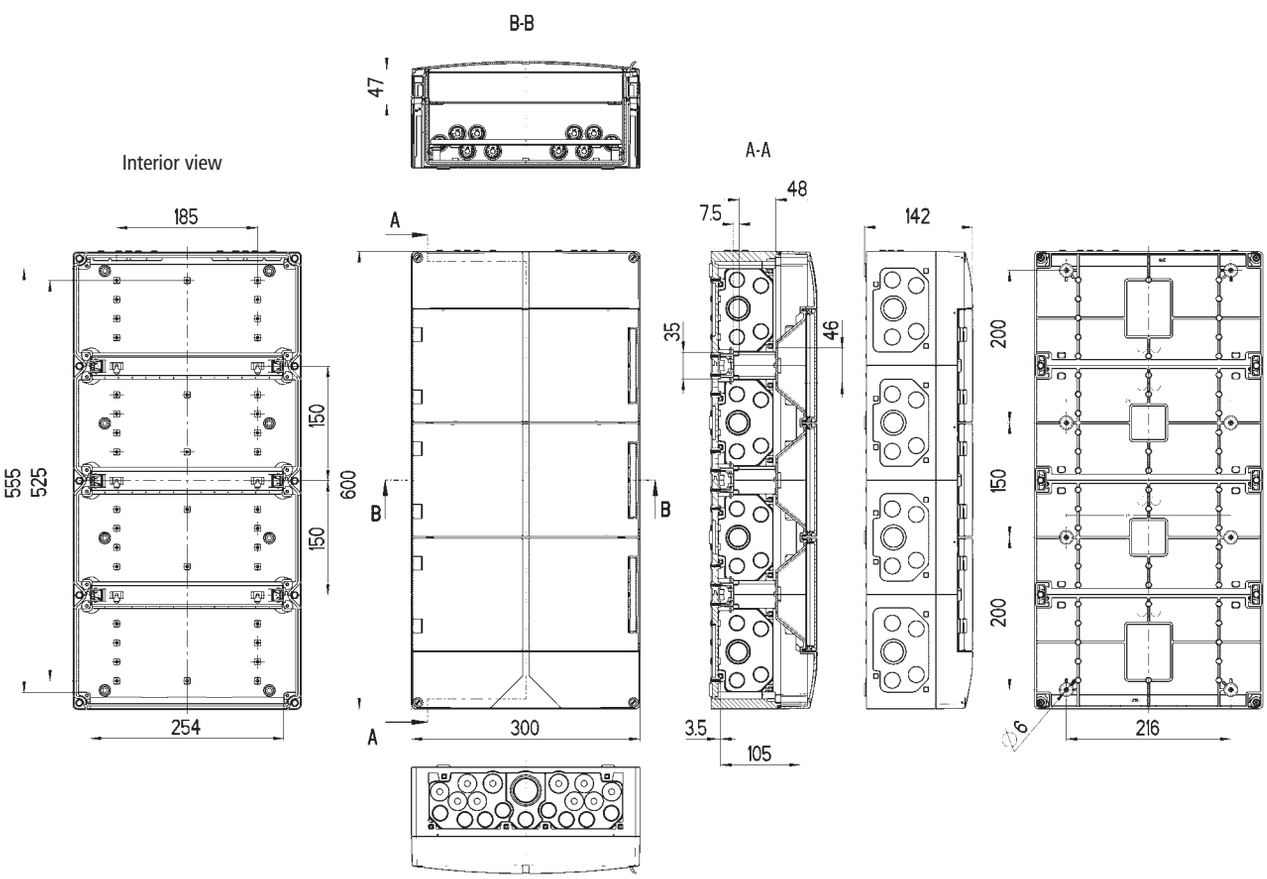
AKi 42
300 x 600 x 142 mm

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Distribution board - **I**ndustrial **Q**uality -, 3-row, 42 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories

IP65 | 42 | IK08 | 400V AC | halogen-free

	Order No.	Packing Qty
AKi 42	736 442 01	1/1



AK 56

300 x 750 x 142 mm

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
20 x M20
5 x M25/M32

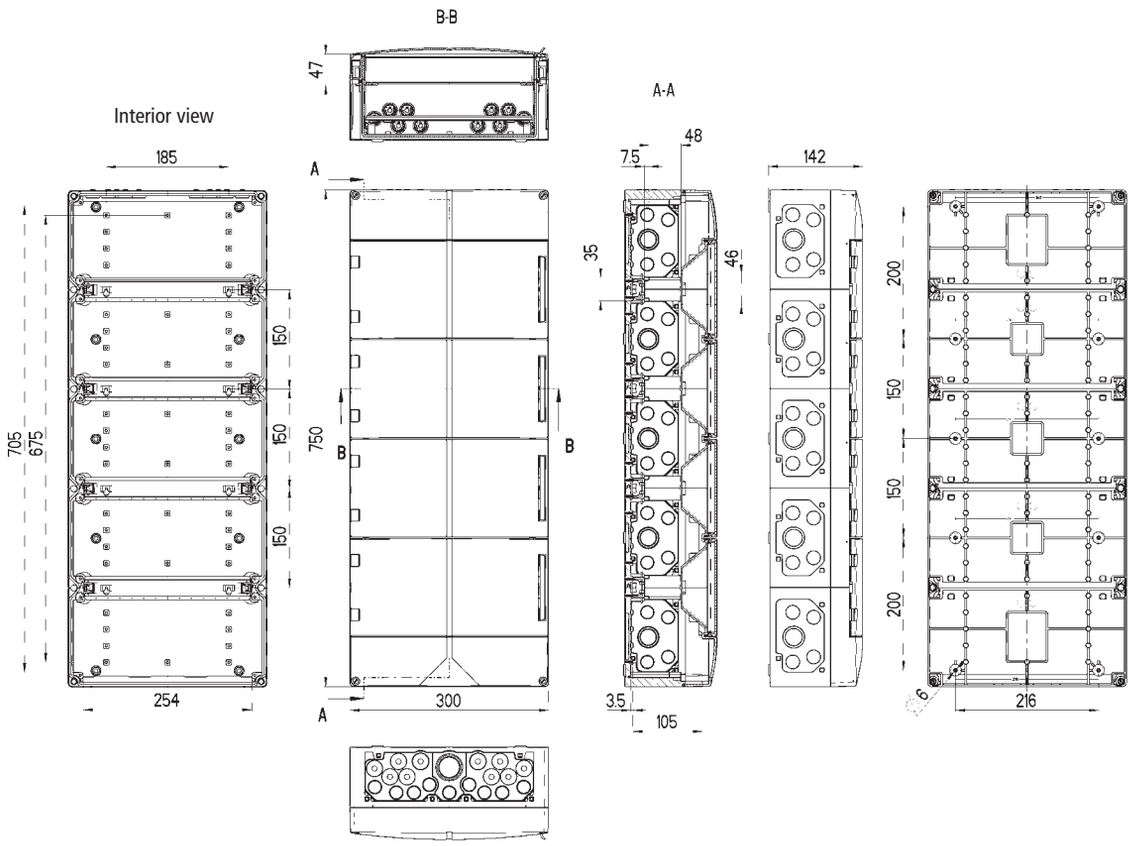
Description	Order No.	Packing Qty
Distribution Board, 4-row, 56 dmodules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 56 · IK07 · 400V AC · halogen-free		
AK 56	735 456 01	1/1

AKi 56

300 x 750 x 142 mm

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
20 x M20
5 x M25/M32

Distribution board - **I**ndustrial **Q**uality -, 4-row, 56 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories		
IP65 · 56 · IK08 · 400V AC · halogen-free		
AKi 56	736 456 01	1/1



	Description	Order No.	Packing Qty
AK 70 300 x 900 x 142 mm	Distribution Board, 5-row, 70 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories		

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
24 x M20
6 x M25/M32

IP65 | 70 | IK07 | 400V AC | halogen-free

AK 70	735 470 01	1/1

AKi 70
300 x 900 x 142 mm

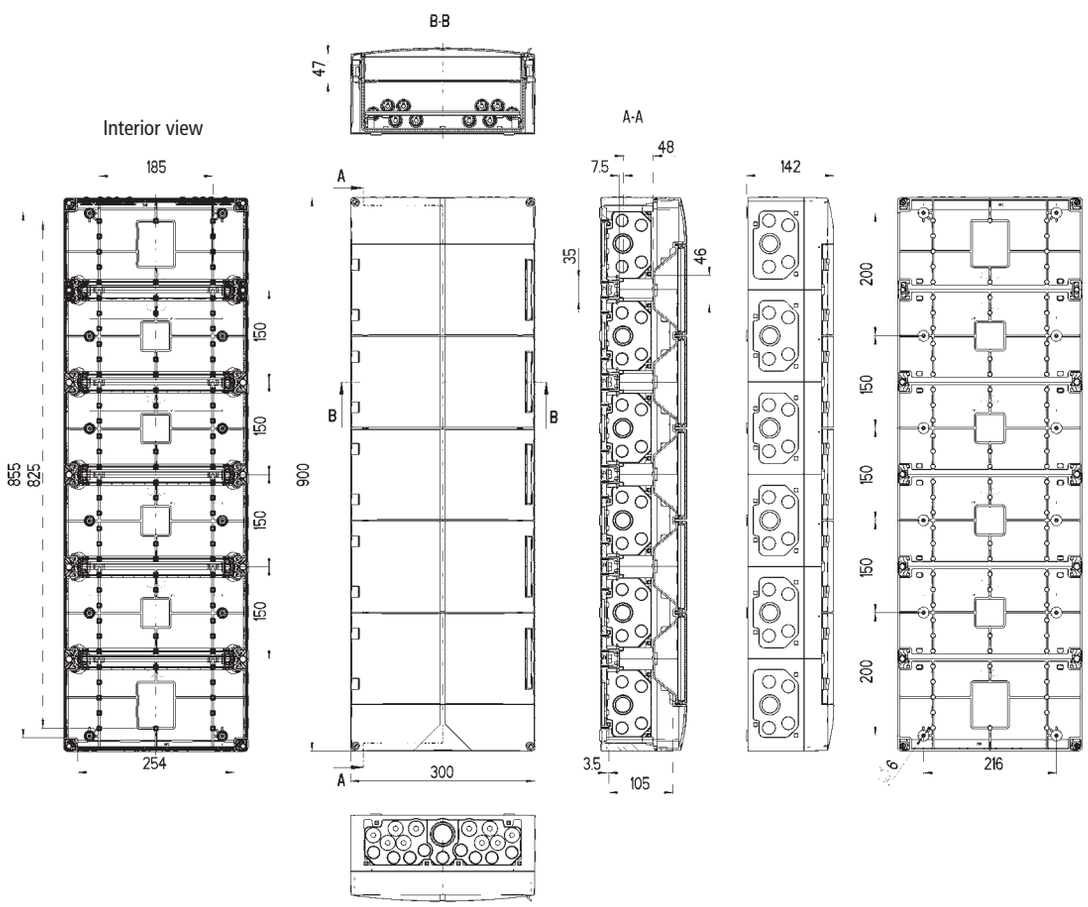
Distribution board - **I**ndustrial **Q**uality -, 5-row, 70 modules, U_i=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points 2.5 - 16 mm², 21 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
24 x M20
6 x M25/M32

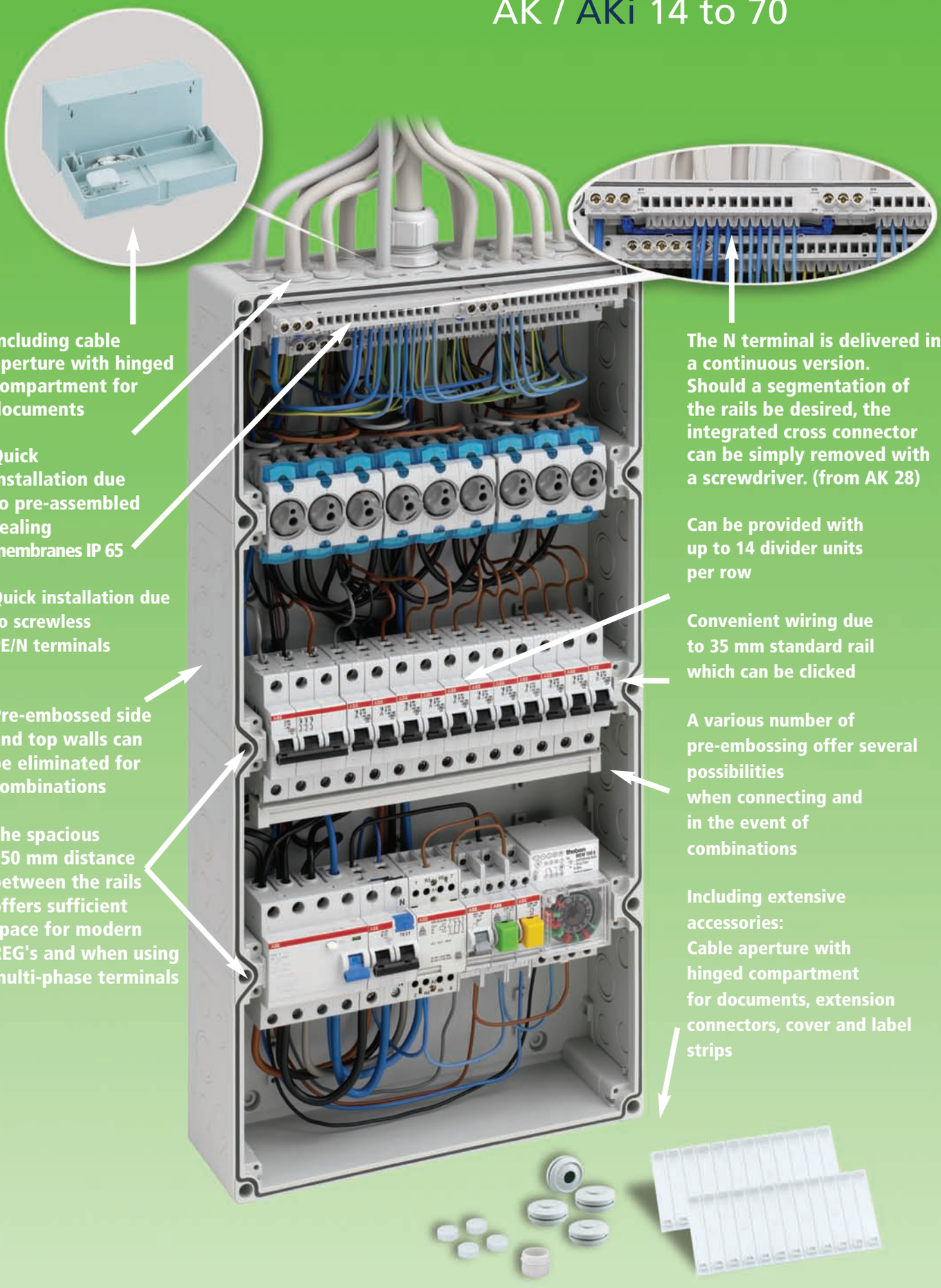
IP65 | 70 | IK08 | 400V AC | halogen-free

AKi 70	736 470 01	1/1

Interior view



AK / AKi 14 to 70



Including cable aperture with hinged compartment for documents

Quick installation due to pre-assembled sealing membranes IP 65

Quick installation due to screwless PE/N terminals

Pre-embossed side and top walls can be eliminated for combinations

The spacious 150 mm distance between the rails offers sufficient space for modern REG's and when using multi-phase terminals

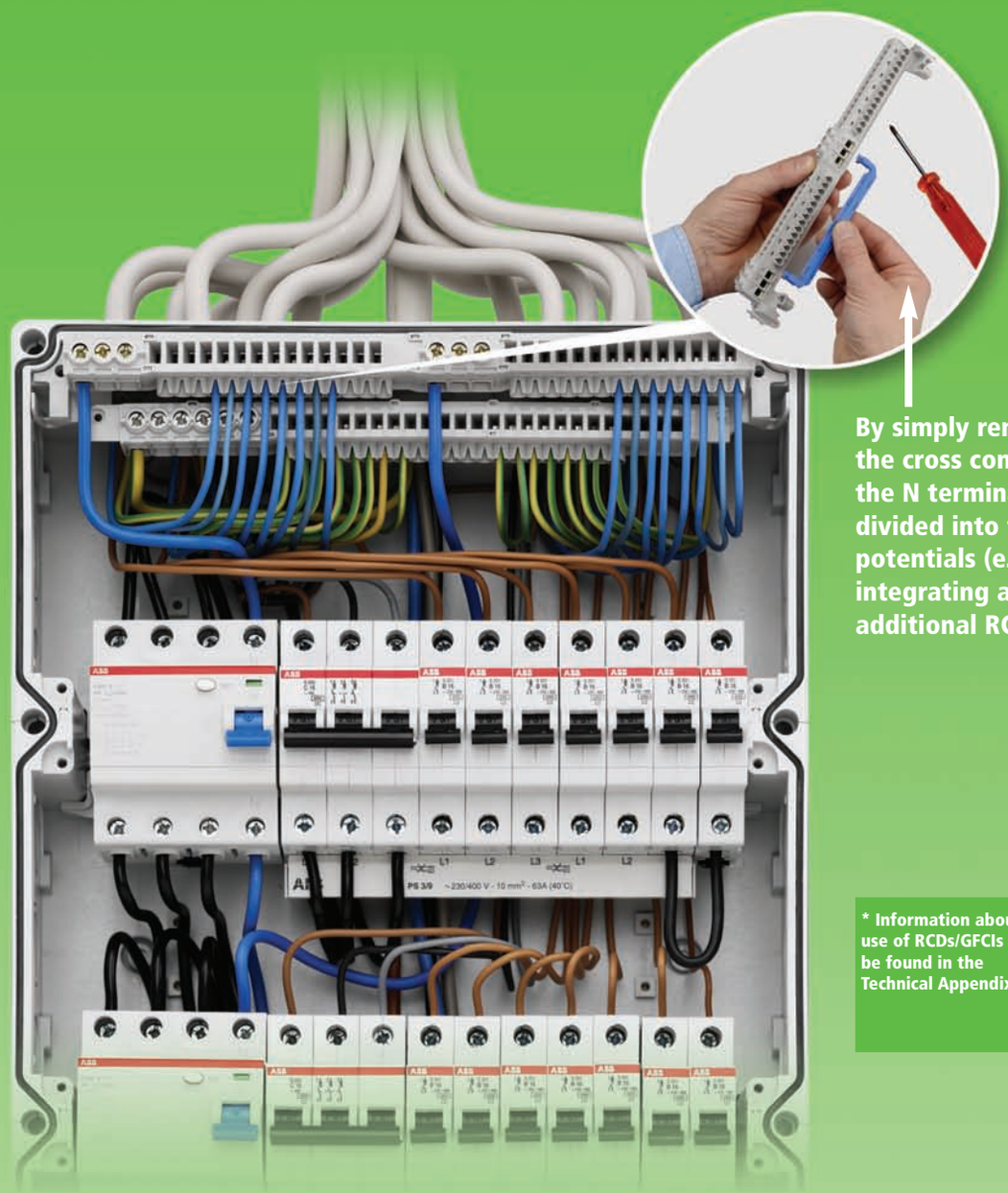
The N terminal is delivered in a continuous version. Should a segmentation of the rails be desired, the integrated cross connector can be simply removed with a screwdriver. (from AK 28)

Can be provided with up to 14 divider units per row

Convenient wiring due to 35 mm standard rail which can be clicked

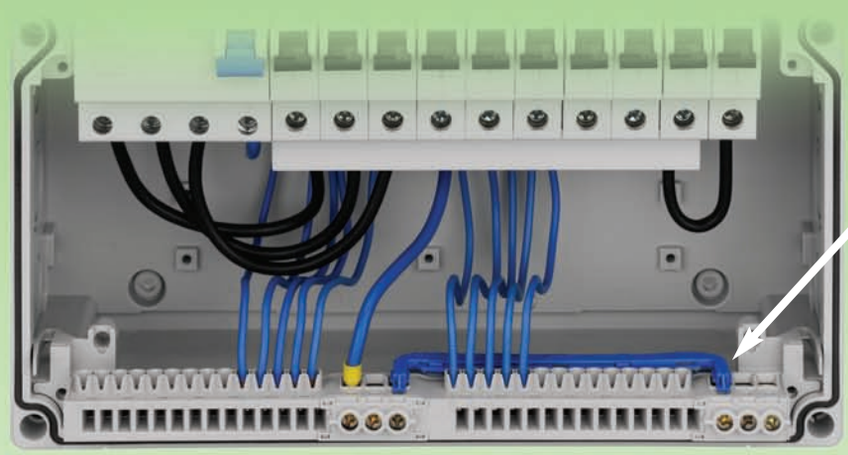
A various number of pre-embossing offer several possibilities when connecting and in the event of combinations

Including extensive accessories: Cable aperture with hinged compartment for documents, extension connectors, cover and label strips



By simply removing the cross connector, the N terminal can be divided into two N potentials (e.g. for integrating an additional RCD/GFCI)

*** Information about the use of RCDs/GFCIs can be found in the Technical Appendix!**



Should more than two N potentials be required, the lower part of the distribution board can be expanded to accommodate an additional N terminal strip (order number: 790 318 01)

AK-Plus / AKi-Plus

IP65 | 14 56 | IK07 | 400V AC | halogen-free

IP65 | 14 56 | IK08 | 400V AC | halogen-free

Industrial quality

- **Additional space for connection with installed standard rail, e.g. to take terminal blocks**
- **By turning the enclosure, the additional connection space can be used either above or below the assembled devices**
- **Individual doors with left hand hinge / right hand hinge enable the lead sealing or locking of individual rows**
- **Ideal combination: Plus-component with integrated vision panel**
- **Mounting of electronic components**

AK 14 Plus

300 x 450 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

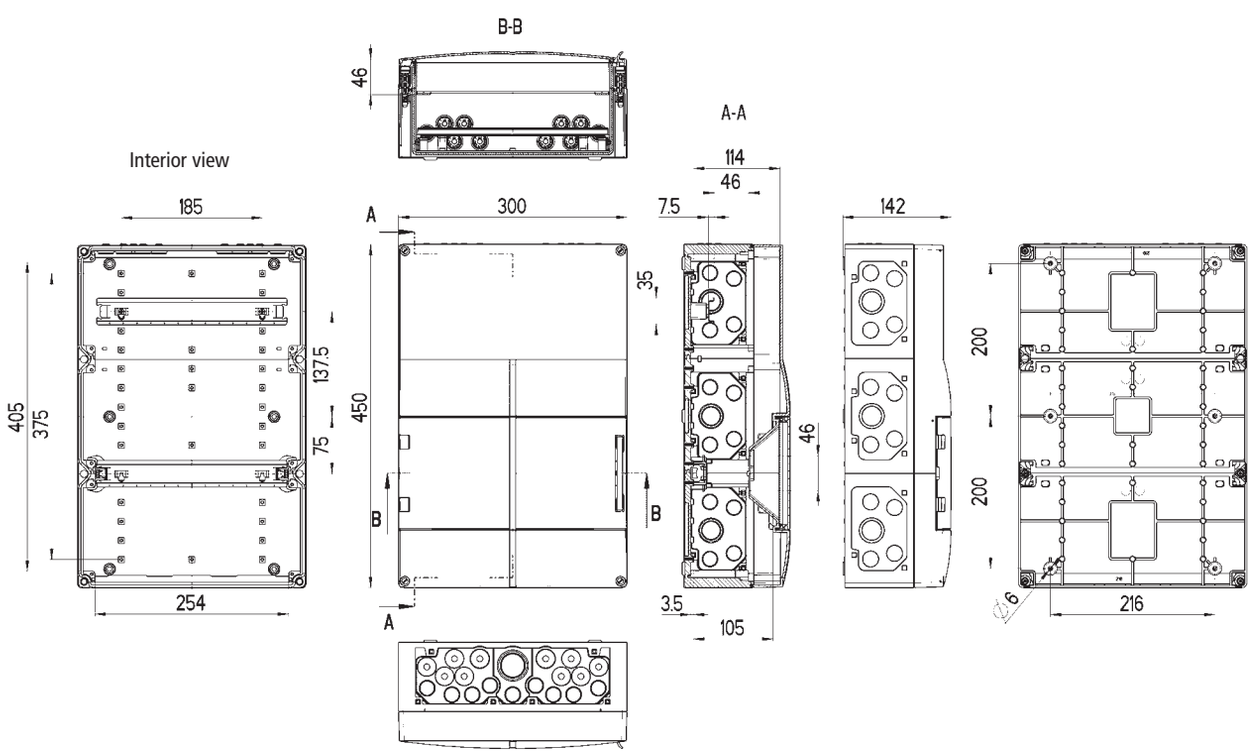
Description	Order No.	Packing Qty
Distribution board 1-row, with additional connection space, 14 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 14 · IK07 · 400V AC · halogen-free		
AK 14 Plus	737 414 01	1/1

AKi 14 Plus

300 x 450 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries end:
12 x M20
3 x M25/M32
Entries on each side:
12 x M20
3 x M25/M32

Distribution board - **I**ndustrial **Q**uality - 1-row, with additional connection space, 14 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 14 · IK08 · 400V AC · halogen-free		
AKi 14 Plus	738 414 01	1/1



AK 28 Plus

300 x 600 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

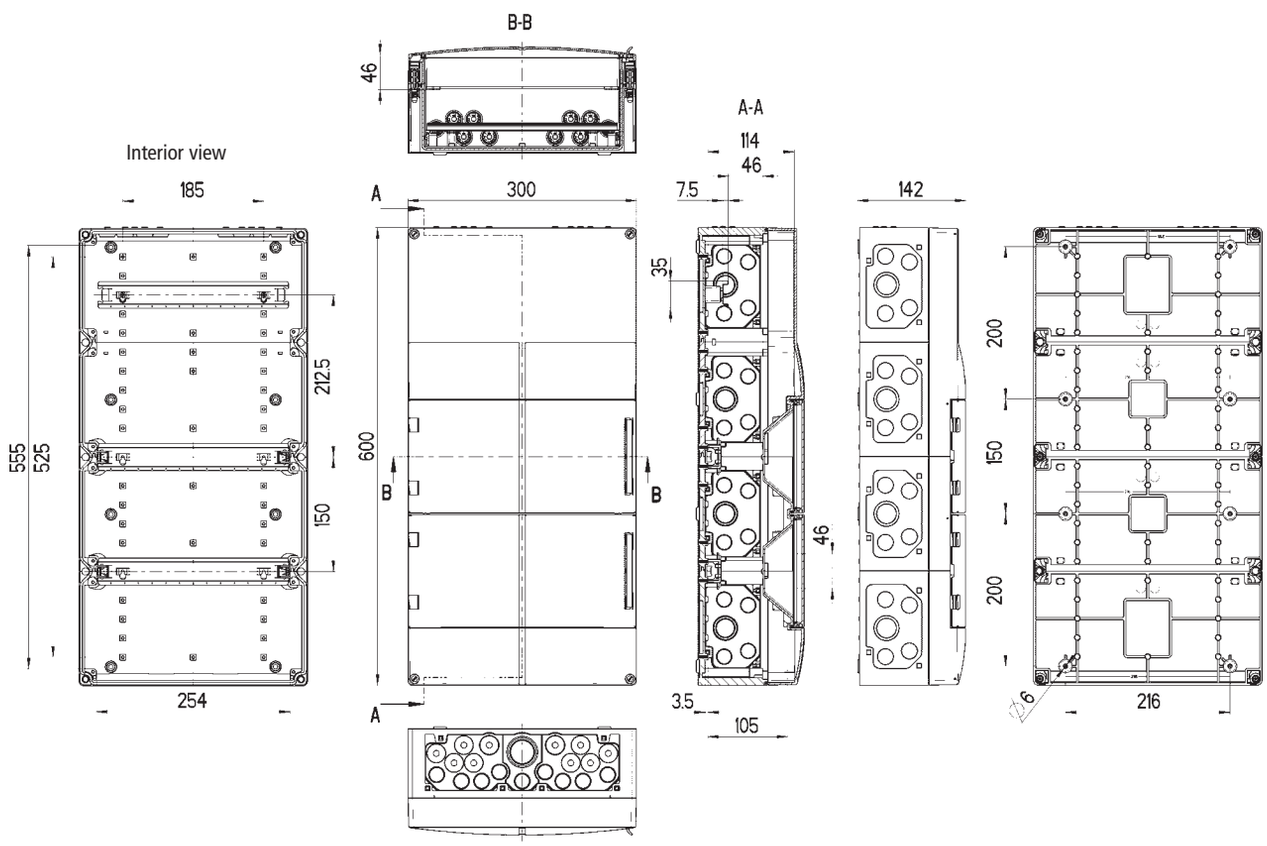
Description	Order No.	Packing Qty
Distribution board 2-row, with additional connection space, 28 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 28 · IK07 · 400V AC · halogen-free		
AK 28 Plus	737 428 01	1/1

AKi 28 Plus

300 x 600 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Distribution board - **I**ndustrial **Q**uality - 2-row, with additional connection space, 28 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 28 · IK08 · 400V AC · halogen-free		
AKi 28 Plus	738 428 01	1/1



AK 42 Plus

300 x 750 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
20 x M20
5 x M25/M32

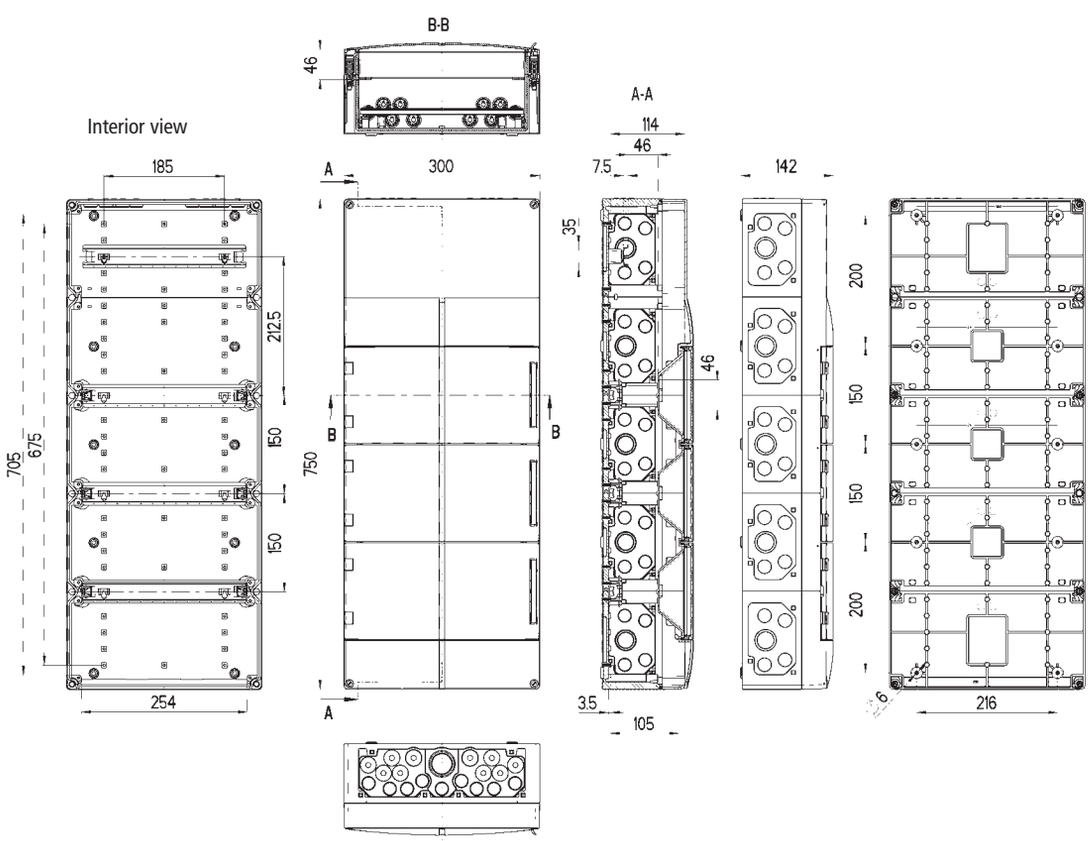
Description	Order No.	Packing Qty
Distribution board 3-row, with additional connection space, 42 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 42 · IK07 · 400V AC · halogen-free		
AK 42 Plus	737 442 01	1/1

AKi 42 Plus

300 x 750 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
20 x M20
5 x M25/M32

Distribution board - **I**ndustrial **Q**uality - 3-row, with additional connection space, 42 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 42 · IK08 · 400V AC · halogen-free		
AKi 42 Plus	738 442 01	1/1



AK 56 Plus

300 x 900 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
24 x M20
6 x M25/M32

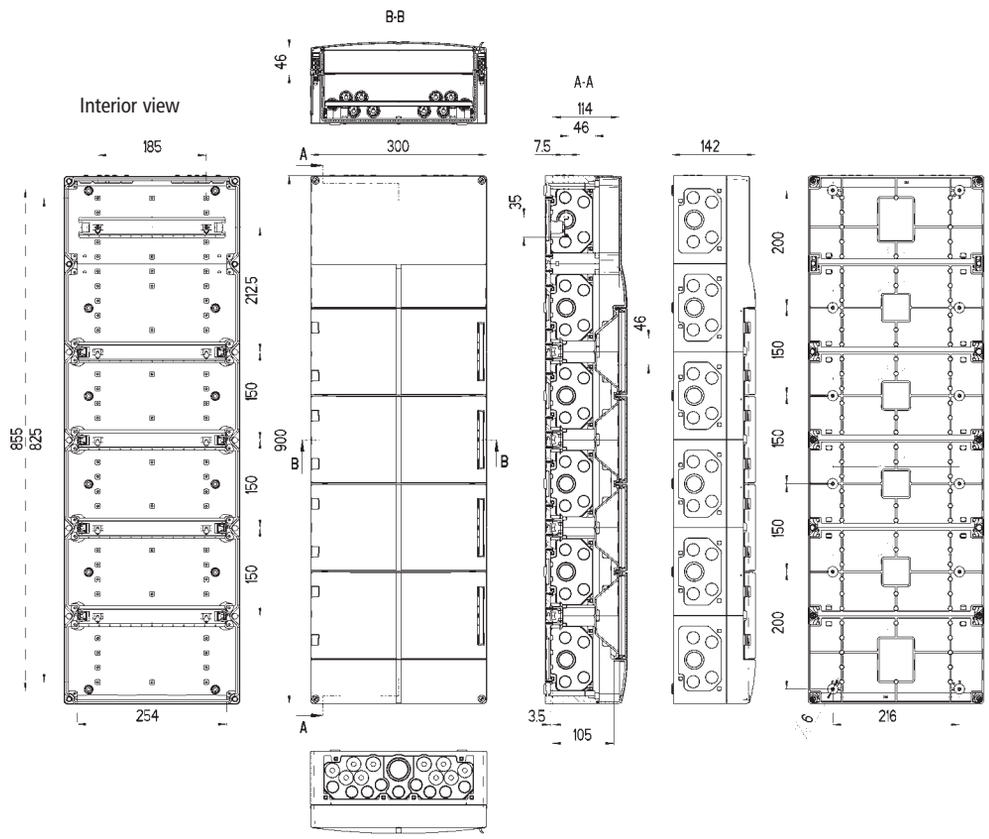
Description	Order No.	Packing Qty
Distribution board 4-row, with additional connection space, 56 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 56 · IK07 · 400V AC · halogen-free		
AK 56 Plus	737 456 01	1/1

AKi 56 Plus

300 x 900 x 142 mm
150 mm additional space

Entries top end:
17 x M20
2 x M20/M25
1 x M32/M40
Entries on floor:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
24 x M20
6 x M25/M32

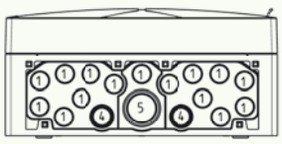
Description	Order No.	Packing Qty
Distribution board - **I**ndustrial **Q**uality - 4-row, with additional connection space, 56 modules, U_i=400V, elastic entries on top, 150 mm rail spacing, without PE/N terminal rails, with 35 mm standard rails, cable cover, masking and labelling strips, additional double-membrane seals and other accessories		
IP65 · 56 · IK08 · 400V AC · halogen-free		
AKi 56 Plus	738 456 01	1/1



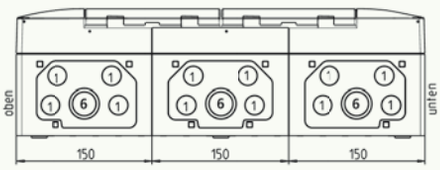
Knock-out Entries

AK / AKi Plus
Example: AK / AKi 28

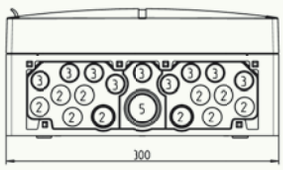
Top side below



Both side walls



Top side above



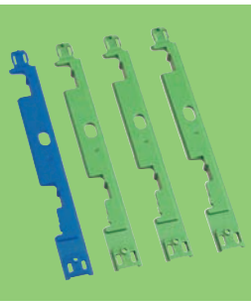
1 = M20 knock-out
2 = Ø20 fitted with double membrane nipple
3 = Ø20 knock-out for double membrane nipple
4 = M20/25 knock-out
5 = M32/M40 knock-out
6 = M25/M32 knock-out

AKe / AK / AKi Accessories

▲ **Ventilation seal**
for reducing condense water in enclosures

▲ **Partition wall**
for assembly into components of the AK enclosure system

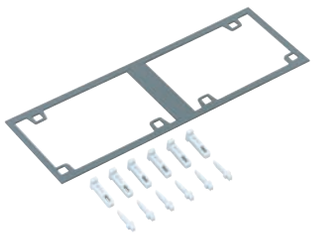
▲ **Board Case**
For closing off unused circuit-breaker positions and housing fuses, etc.



▲ **Lock bolt set**
Safe closing off of various circuit-breaker rows by using only one single lock

AK Combi set

IP65



Description	Order No.	Packing Qty
For horizontal or vertical combination of all AK enclosures from 300 x 150 mm, complete with wedge connectors and intermediate sealing for 150 and 300 mm enclosure sides, each 300 mm = 1 combi set		
AK KS-IP65	791 001 01	100/1

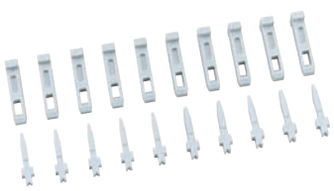
Combi connector

IP54

Combination connector, for connecting enclosures, thermo plastic		
KST M32 f. wall thicknesses, 1.5 - 4.0 mm	193 032 01	150/1

AK Combi set

IP30



Combi set without intermediate enclosure seal, for horizontal or vertical combination of all AK enclosures from 300 x 150 mm, 1 set = 10 wedge connectors		
AK KS-IP30	591 100 01	1/1

Combi set

IP66

Combi set, for side connection of housings with metric openings, complete with lock nuts and intermediate wall seal inserts

	f. wall thicknesses		
KS M20	2.0 x 3.0	192 020 01	100/1
KS M25	2.0 x 3.0	192 025 01	50/1
KS M32	2.0 x 3.5	192 032 01	50/1
KS M40	2.0 x 3.5	192 040 01	50/1

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses	Sealing area/mm		
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

Cable glands

IP68

Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

Description	Thread lenght/mm	Sealing area/mm	Order No.	Packing Qty
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Ventilation seal

IPX4

With labyrinth seal to reduce condensation formation in housing, thermoplastic elastomer, grey, for insert in lower housing side

BST M20 f. wall thicknesses 1.5 - 4.5 mm	262 420 01	600/100

AK Mounting flange

For installation in the components of the AK enclosure system for 300 mm wide end walls (AKL, AKZ, ...), the distribution boxes from AK/AKi 14 and from AK/AKi 14 Plus are provided with cable covers as standard

AK ABF 1 with pre-embossing, 2 x M32 / M40 / M50, 1 x M40 / M50 / M63	795 048 01	1/1
AK ABF 2 smooth for self-drilling	795 050 01	1/1

AKi Mounting flange

Mounting flange for attachment to components of AKi housing system to 300 mm wide sides, complete with fixing material

AKi ABF 1 with pre-embossing, 2 x M32 / M40 / M50, 1 x M40 / M50 / M63	796 051 01	1/1
AKi ABF 2 smooth for self-drilling	796 050 01	1/1

Lock fittings

Description	Order No.	Packing Qty
For fitting to hinged doors of distribution boxes AK 03 to AK/AKi 70 and AK/AKi Plus 14 to 56, with 2 keys and installation instructions		
AK SGA-1 Identical locks	706 102 01	1/1
AK SGA-2 Different closures	706 902 01	1/1

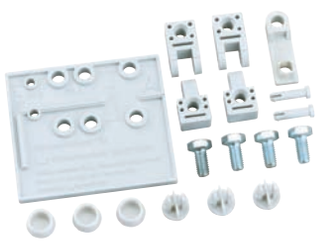
Lock bolt set

Lock bolt set, 4 pieces, for installation in AK/AKi 28 to 70 and AK/AKi Plus 28 to 56, in conjunction with the lock fittings 706 102 01 / 706 902 01 several hinged windows can be safely locked by activating only one single lock.		
AK SRS	706 104 01	200/1

Padlock kit

Padlock kit for upgrading the housing cover to lockable hinged door, incl. padlock, 2 hinges, fixing screws, cover plugs and drilling template		
VSG	190 100 01	20/1

Hinge set



For converting the upper part of enclosure to a door, for the components of the AK enclosure system from size 300 x 150 mm, complete with drilling template, fixing screws and locking seals		
ASS-gro External hinge set large	190 005 01	200/1

Partition wall

For installation in the components of the AK enclosure system, 300 mm wide, universal application for various enclosure heights, grey		
AK TW	797 910 01	1/1

Cable cover

300 x 125 x 90 mm

Description	Order No.	Packing Qty
For installation in the components of the AK enclosure system for 300 mm wide end walls (AKL, AKZ, ...), the distribution boxes from AK/AKi 14 and from AK/AKi 14 Plus are provided with cable covers as standard		
AK KBL	792 400 01	1/1

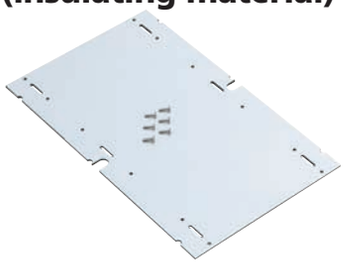
Masking off strips

Masking off strips to close off unused circuit-breaker positions, width 108 mm for 6 splitter units, detachable, grey		
AK AS	799 012 01	1/1

Board Case

For closing off unused circuit-breaker positions, width 54 mm for 3 way units, for 35 mm standard rail, e.g. to house fuses, operating instructions, etc.		
AK BC	799 103 01	1/1

AK Mounting flange (insulating material)



Made of insulation material for fitting in equipment with floor fixing, including fixing screws

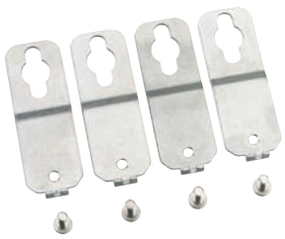
	Dimensions/mm	Type		
AK MPI 1	240 x 112 x 4.0	AKL / AKi 1-4	795 001 01	1/1
AK MPI 2	240 x 240 x 4.0	AKL / AKi 2-4	795 002 01	1/1
AK MPI 3	240 x 390 x 4.0	AKL / AKi 3-4, Abox/Abox-i 700	795 003 01	1/1
AK MPI 4	240 x 540 x 4,0	AKL / AKi 4	795 004 01	1/1

Mounting rail NS 35

Mounting rail according to DIN EN 60715, 35 x 7.5, width 35mm

AK NS35-250 from 300 x 300 mm, length 250 mm, including spacers	562 735 01	1/1
NS35-216/3 universal floor fixing, from 300 x 300 mm, length 216 mm, with fixing screws	795 030 01	1/1

AK External attachment set



Description	Order No.	Packing Qty
External fixing lugs, for mounting of separate enclosures or small units on flat wall surfaces, may be fixed to the bottom of the enclosure at an angle of 0°, 45°, or 90°, wall gap 7 mm		
AK ABL-ES Set = 4 pieces	793 004 01	50/1

Z-wall profile

2000 mm

Z-Wall profile, Zinc coated, length 2 m, with 8 cap-head screws and 8 captive push-fit nuts, wall gap 70 mm		
ZPR	070 800 01	1/1

KF 12 Hinged window

80 x 228 x 23 mm

IP65

For fitting to housing cover, for maximum 12 modules at 17.5 mm, with transparent hinged window, frame with sealing both sides, with drilling template and fixing screws		
KF 12	567 412 01	15/1

SF 12 Inspection window

80 x 228 x 12,5 mm

IP65

For fitting to housing cover, transparent viewing window, with drilling template and fixing screws		
SF 12	568 012 01	10/1

PE/N terminal

For fixing to 35 mm standard rail, e.g. in meter housings		
KLS N 35 N terminal (blue) 3 x 25 mm², 2 x 16 mm²	790 905 01	1/1
KLS PE 35 PE_terminal (green) 3 x 25 mm², 2 x 16 mm²	790 805 01	1/1

PE/N Screwless Terminal

Description	Order No.	Packing Qty
For installation into AK/Aki distributors, as additional terminals or for replacement		
AK 14 PEN-SL single-stage PE/N terminal with each 3 screwable clamping points, 2.5 mm² - 16 mm² and 14 screwless clamping points 1.5 mm² - 4 mm²	790 317 01	1/1
AK 28 PEN-SL two-row PE/N terminal rails each with 6 screwable clamping points 2.5 mm² - 16 mm² and 21 screwless clamping points 1.5 mm² - 4 mm²	790 327 01	1/1
AK N-SL single-stage N-terminal, with 4 screwable clamping points 2.5 mm² - 16mm², and 28 screwless clamping points 1.5 mm² - 4 mm², following removal of the cross-connection, distribution into, 2 potentials after removing the cross connector with each 3 screwable clamping points, 2.5 mm² - 16 mm² and 14 screwless, clamping points 1.5 mm² - 4 mm²	790 318 01	1/1

PE/N-terminal

For installation into AK/Aki distributors, as additional terminals or for replacement

	Number of pole	Clamping range		
AK 03 PEN-S	2 x 4-pole	6/16 mm²	790 204 01	1/1
AK 05 PEN-S	2 x 5-pole	6/16 mm²	790 205 01	1/1
AK 09 PEN-S	2 x 7-pole	6/16 mm²	790 207 01	1/1
AK 12 PEN-S	2 x 12-pole	6/16 mm²	790 211 01	1/1
AK 24 PEN-S	2 x 16-pole	6/16 mm²	790 218 01	1/1
AK 14/28 PEN-S	2 x 17-pole	6/16/25 mm²	790 217 01	1/1
AK 42 PEN-S	2 x 25-pole	6/16/25 mm²	790 225 01	1/1

4-way neutral terminal

Description	Order No.	Packing Qty
Auxiliary terminal for subsequent attachment to AK PE/N basic terminals from AK 14		
AK N 47-S 4 x 7-pole, 6/16 mm²	790 047 01	1/1

1-way neutral terminal

Auxiliary terminal for subsequent installation in AK PE/N basic terminals from AK 42		
AK N 17-S 1 x 7-pole, 6/16 mm²	790 007 01	1/1

ZKi and **AKi-Z meter housings**

IP65 IP54 | IK08 | 400V AC | halogen-free | **Industrial quality**

- **Meter housings ZKi Ingress protection IP 65/54**

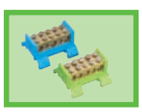
- **Halogen-free**
- **High mechanical load bearing capacity**
- **Can be combined**

- **Sealable transparent cover**
- **Space-saving through compact design**

- **Meter housings AKi-Z Ingress protection IP 65 / IP 54**

iQ - **I**ndustrial **Q**uality
All products of series that are specially designed for industrial applications and end in ***"-I"*** can be identified by the blue background.

Meter Housings
Contents

	Protection	Size	Types	Page
	IP65/ IP54	**up to 250 x 670 mm**	ZKi	188-189
	IP65/ IP54	**up to 300 x 750 mm**	AKi-Z	190-194
		Accessories	ZKi/AKi-Z	196-199

ZKi 1

250 x 370 x 193 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - IP65, (when using the corresponding cable entry), with transparent cover, U_i=400V, standard version sealable, with meter crosspiece fitted for triphase counter and meter fixing screws, for triphase counter and meter fastening screws, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK 08 · 400V AC · halogen-free		
ZKi 1	749 001 01	1/1

ZKi 11

250 x 520 x 193 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40

Meter housing - **I**ndustrial **Q**uality - IP65, (when using the corresponding cable entry), with transparent cover, U_i=400V, standard version sealable, consumer space at the top, with 35 mm standard rails and PE/N double terminals, with meter crosspiece fitted for triphase counter and meter fixing screws, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK 08 · 400V AC · halogen-free		
ZKi 11	749 011 01	1/1

ZKi 100

250 x 520 x 193 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - IP65, (when using the corresponding cable entry), with transparent cover, U_i=400V, standard version sealable, also use support spars, seperate additional space 150 mm with 35 mm standard rails, with meter crosspiece fitted for triphase counter and meter fixing screws, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK08 · 400V AC · halogen-free		
ZKi 100	749 100 01	1/1

ZKi 110

250 x 670 x 193 mm

Entries end:
8 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M32/M40

Meter housing - **I**ndustrial **Q**uality - IP65, (when using the corresponding cable entry), with transparent cover, U_i=400V, standard version sealable, consumer space at the top, with 35 mm standard rails and PE/N double terminals, with meter crosspiece fitted for triphase counter and meter fixing screws, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK08 · 400V AC · halogen-free		
ZKi 110	749 110 01	1/1

AKi-Z 2

300 x 300 x 210 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - U_i=400V, with transparent cover, standard version sealable, with meter crosspiece fitted for triphase counter and meter fixing screws, with IP54 attachment bushes, sealing and insulating plugs		
AKi-Z 2	752 002 01	1/1

AKi-Z 3

300 x 450 x 210 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - U_i=400V, with transparent cover, standard version sealable, with meter crosspiece fitted for triphase counter and meter fixing screws, with IP54 attachment bushes, sealing and insulating plugs		
AKi-Z 3	752 011 01	1/1

AKi-Z 400

300 x 600 x 210 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
2 x M20
2 x M32/M40
1 x M40/M50/M63
Entries on each side:
12 x M20
3 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - U_i=400V, with transparent cover, standard version sealable, with meter crosspiece fitted for triphase counter and meter fixing screws, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK08 · 400V AC · halogen-free		
AKi-Z 400	757 110 01	1/1

AKi-Z 401

300 x 600 x 210 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Meter housing - **I**ndustrial **Q**uality - U_i=400V, with transparent cover, standard version sealable, seperate additional connection space 150 mm with 35 mm standard rails, with meter crosspiece fitted for triphase counter and meter fixing screws, twist nipple, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK08 · 400V AC · halogen-free		
AKi-Z 401	752 401 01	1/1

AKi-Z 502

300 x 750 x 210 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
2 x M20
2 x M32/M40
1 x M40/M50/M63
Entries on each side:
16 x M20
4 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - U_i=400V, with transparent cover, standard version sealable, seperate additional connection space 300 mm with 35 mm standard rails, with meter plate for triphase counter and fixing screws, twist nipple, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK 08 · 400V AC · halogen-free		
AKi-Z 502	752 502 01	1/1

AKi-Z 410 K

300 x 600 x 210 mm

Entries end:
15 x M20
5 x M20/M25
1 x M32/M40
Entries bottom end:
1 x M40/M50/M63
2 x M20
2 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32
1 x M32/M40/M50

Meter housing - **I**ndustrial **Q**uality - U_i=400V, with transparent cover, standard version sealable, with meter crosspiece fitted for triphase counter and meter fixing screws, with additional hinged window, with 35 mm standard rails for installing a selective main switch, incl. 2 single pole HA terminals 25/16 mm² for N and PE, twist nipple, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK 08 · 400V AC · halogen-free		
AKi-Z 410 K	757 410 01	1/1

AKi-Z 410 KK

300 x 600 x 210 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
1 x M40/M50/M63
2 x M20
2 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - U_i=400V, cover grey, standard version sealable, with transparent hinged window for recording data electronically, with meter crosspiece fitted for triphase counter and meter fixing screws, with additional hinged window, with 35 mm standard rails for installing a selective main switch, incl. 2 single pole HA terminals 25/16 mm² for N and PE, twist nipple, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK08 · 400V AC · halogen-free		
AKi-Z 410 KK	758 410 01	1/1

AKi-Z 511 K

300 x 750 x 210 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
1 x M40/M50/M63
2 x M20
2 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32
1 x M32/M40/M50

Meter housing - **I**ndustrial **Q**uality - , U_i=400V, with transparent cover, standard version sealable, with meter crosspiece fitted for triphase counter and meter fixing screws, with additional hinged window, with 35 mm standard rails for installing a selective main switch, incl. 2 single pole HA terminals 25/16 mm² for N and PE,seperate additional connection space 150 mm in output area with 35 mm standard rails, twist nipple, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK08 · 400V AC · halogen-free		
AKi-Z 511 K	757 511 01	1/1

AKi-Z 511 KK

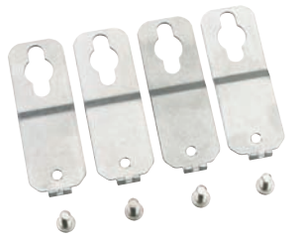
300 x 750 x 210 mm

Entries top end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries bottom end:
1 x M40/M50/M63
2 x M20
2 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32
1 x M32/M40/M50

Description	Order No.	Packing Qty
Meter housing - **I**ndustrial **Q**uality - U_i=400V, cover grey, standard version sealable, with transparent hinged window, with meter crosspiece fitted for triphase counter and meter fixing screws, with additional hinged window, with 35 mm standard rails for installing a selective main switch, incl. 2 single pole HA terminals 25/16 mm² for N and PE,connection space 150 mm in output area with 35 mm standard rails, twist nipple, with IP54 attachment bushes, sealing and insulating plugs		
IP65 IP54 · IK 08 · 400V AC · halogen-free		
AKi-Z 511 KK	758 511 01	1/1

ZKi

AK External attachment set



Description	Order No.	Packing Qty
External fixing lugs, for mounting of separate enclosures or small units on flat wall surfaces, may be fixed to the bottom of the enclosure at an angle of 0°, 45°, or 90°, wall gap 7 mm		
AK ABL-ES Set = 4 pieces	793 004 01	50/1

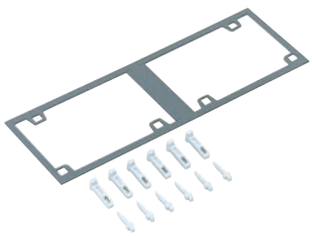
Z-wall profile

2000 mm

Z-Wall profile, Zinc coated, length 2 m, with 8 cap-head screws and 8 captive push-fit nuts, wall gap 70 mm		
ZPR	070 800 01	1/1

AK Combi set

IP65



For horizontal or vertical combination of all AK enclosures from 300 x 150 mm, complete with wedge connectors and intermediate sealing for 150 and 300 mm enclosure sides each 300 mm = 1 combi set		
AK KS-IP65	791 001 01	100/1

AK Combi set

IP30

Combi set without intermediate enclosure seal, for horizontal or vertical combination of all AK enclosures from 300 x 150 mm, 1 set = 10 wedge connectors		
AK KS-IP30	591 100 01	1/1

Cable glands

IP68

Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/mm	Sealing area/mm	Order No.	Packing Qty
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Combi set

IP66

Combi set, for side connection of housings with metric openings, complete with lock nuts and intermediate wall seal inserts

	f. wall thicknesses/mm	Order No.	Packing Qty
KS M20	2.0 x 3.0	192 020 01	100/1
KS M25	2.0 x 3.0	192 025 01	50/1
KS M32	2.0 x 3.5	192 032 01	50/1
KS M40	2.0 x 3.5	192 040 01	50/1

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses/mm	Sealing area/mm	Order No.	Packing Qty
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

PE/N terminal

For fixing to 35 mm standard rail, e.g. in meter housings

	Order No.	Packing Qty
KLS N 35 N terminal (blue) 3 x 25 mm², 2 x 16 mm²	790 905 01	1/1
KLS PE 35 PE_terminal (green) 3 x 25 mm², 2 x 16 mm²	790 805 01	1/1

HA Main cable junction terminal

Description	Order No.	Packing Qty
Main cable junction terminal - **I**ndustrial **Q**uality - with cross-sectional area		
HA 25-12 1-pole - 25/16mm²	691 122 01	100/4
HA 25-22 2-pole - 25/16mm²	691 222 01	50/2
HA 25-42 4-poles - 25/16mm²	691 422 01	25/1
HA 25-52 5-poles - 25/16mm²	691 522 01	25/1

HA Main cable junction terminal

Main cable junction terminal - **I**ndustrial **Q**uality - with cross-sectional area, 2 x 25 mm² per pole and 2 outputs 16 mm² per pole		
HA 25-16 1-pole finger-proof	691 132 01	10/1

HA Main cable junction terminal

Description	Order No.	Packing Qty
Main cable junction terminal with 4 clamping points 25 mm² per pole		
HA 25-43 4-pole finger-proof	691 433 01	25/1
HA 25-53 5-poles - finger proof	691 533 01	25/1

HA Main cable junction terminal

Main cable junction terminal - **I**ndustrial **Q**uality - with cross-sectional area, =1 x 35 mm² per pole and 2 outlets 25 mm² per pole		
HA 35-42 4-poles - 35/25mm²	692 422 01	25/1
HA 35-52 5-poles - 35/25mm²	692 522 01	25/1

STV and STG

Socket distribution boxes and enclosures
Empty, pre-wired, ready for connection

· **STV**
Socket distribution box

· **The compact dimensions of the STV socket distributors offer a wide range of space-saving installation possibilities. The enclosures can also be horizontally combined.**

iQ - **I**ndustrial **Q**uality
All products of series that are specially designed for industrial applications and end in ***"-I"*** can be identified by the blue background.

STV / STG
Contents

	Protection	Fitting	Types	Page
	up to IP65	**Empty**	STV-L	203-204
	IP44	**Pre-wired**	STV-S	203-204
	IP44	**Ready for connection**	STV-K	203-205
	IP44	**Ready for connection**	STG-Socket distribution box	203
		Accessories	STV / STG	206-207

STV-Socket distribution boxes
STG-Socket distribution enclosures

IP44 IK08 400V AC halogen-free

Industrial quality

- **High mechanical load bearing capacity**
- **Insensitive to temperature**
- **Compact dimensions**
- **Use of quality sockets**
- **Can be combined**

STV-L - Empty, without components, however, with PE/N terminal

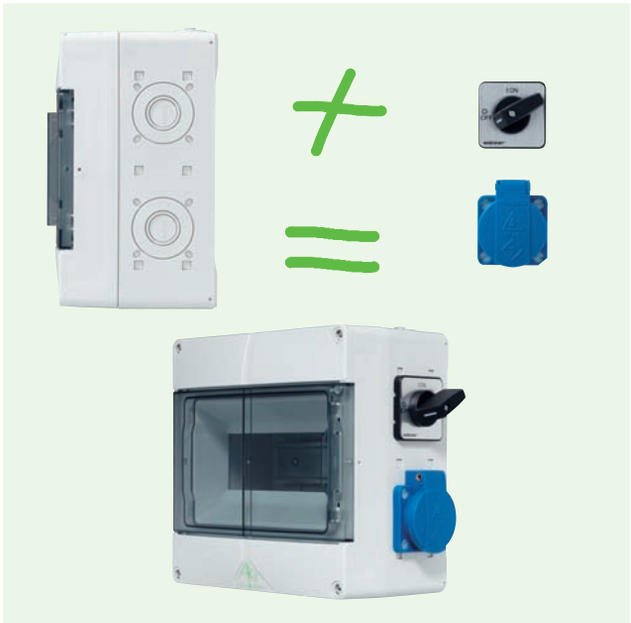
STV-S - With installed CEE- and Schuko®-sockets, pre-wired, incl. PE/N terminal

STV-K - Ready for connection, e.g. with installed CEE- and Schuko®-sockets, equipped with earth leakage circuit and MCB switch, completely wired

STG
Ready for connection, with installed CEE- and Schuko®-sockets, pre-wired for connection

1) The enclosures can also be horizontally combined.
2) Due to the special stripping form, it is possible to mount additional components like switch disconnectors.

STG-Socket distribution box



	ready for connection	ready for connection	ready for connection	ready for connection
	SCHUKO®socket 16 A	SCHUKO®socket 16 A / CEE-socket 16 A	SCHUKO®socket 16 A	SCHUKO®socket 16 A / CEE-socket 16 A
Fitting	4	2 / 1	8	4 / 2
Type	**STG 004**	**STG 012**	**STG 008**	**STG 024**
Order number	**732 204 01**	**732 212 01**	**732 208 01**	**732 224 01**
Dimensions (mm)	125 x 200 x 122 mm	125 x 200 x 122 mm	250 x 200 x 122 mm	250 x 200 x 122 mm

STV-socket distribution box

	Empty enclosure 5 modules	pre-wired	ready for connection	Empty enclosure 5 modules	pre-wired	ready for connection*	Combi set
		SCHUKO®socket 16 A	SCHUKO®socket 16 A / MCB 16 A 1p, B / RCD 25 A 2p, 0,03 A		SCHUKO®socket 16 A / CEE-socket 16 A	SCHUKO®socket 16 A / CEE-socket 16 A / MCB 16 A 1p, B / MCB 16 A 3p, C	For easy combination of AKi enclosures
Fitting		2	2 / 2 / 1		2 / 1	2 / 1 / 2 / 1	
Type	**STV 502-L**	**STV 502-S**	**STV 502-K**	**STV 512-L**	**STV 512-S**	**STV 512-K**	**STV KS-IP 65**
Order number	**728 902 01**	**728 302 01**	**728 402 01**	**728 912 01**	**728 312 01**	**728 412 01**	**791 002 01**
Dimensions (mm)	125 x 200 x 122 mm	125 x 200 x 122 mm	125 x 200 x 122 mm	125 x 400 x 122 mm	125 x 400 x 122 mm	125 x 400 x 122 mm	

STV-socket distribution box

	Empty enclosure 9 modules	pre-wired	ready for connection*			
		SCHUKO®socket 16 A	SCHUKO®socket 16 A / MCB 16 A 1p, B / RCD 40 A 4p, 0,03 A			
Fitting		4	4 / 4 / 1			
Type	**STV 904-L**	**STV 904-S**	**STV 904-K**			
Order number	**729 904 01**	**729 304 01**	**729 404 01**			
Dimensions (mm)	200 x 200 x 122 mm	200 x 200 x 122 mm	200 x 200 x 122 mm			

STV- and STG enclosures can also be combined with AKi compact distribution boards!

*Information about the use of residual current protective devices (RCDs) can be found in the Technical Appendix!

	5 modules	9 modules
Type	**AKi 05**	**AKi 09**
Order number	**736 405 01**	**736 409 01**
Dimensions (mm)	125 x 200 x 122 mm	200 x 200 x 122 mm

STV-Socket distribution box

Empty enclosure 9 modules

Fitting	
Type	STV 912-L
Order number	729 912 01
Dimensions (mm)	200 x 400 x 122 mm

pre-wired

	SCHUKO®socket 16 A	CEE-socket 16 A
Fitting	2	1
Type	STV 912-S	
Order number	729 312 01	
Dimensions (mm)	200 x 400 x 122 mm	

ready for connection*

	SCHUKO®socket 16 A	CEE-socket 16 A	MCB 16 A 1p, B	MCB 16 A 3p, C	RCD 40 A 4p, 0,03 A
Fitting	2	1	1	1	1
Type	STV 912-K				
Order number	729 412 01				
Dimensions (mm)	200 x 400 x 122 mm				

ready for connection

	SCHUKO®socket 16 A	CEE-socket 16 A	Neozed D 01, 1p	Neozed D 01, 3p
Fitting	2	1	2	1
Type	STV 912-KN16			
Order number	729 512 01			
Dimensions (mm)	200 x 400 x 122 mm			

pre-wired

	SCHUKO®socket 16 A	CEE-socket 32 A
Fitting	2	1
Type	STV 912-S32	
Order number	729 313 01	
Dimensions (mm)	200 x 400 x 122 mm	

STV-Socket distribution box

Empty enclosure 9 modules

Fitting	
Type	STV 923-L
Order number	729 923 01
Dimensions (mm)	200 x 400 x 122 mm

pre-wired

	SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A
Fitting	3	1	1
Type	STV 923-S		
Order number	729 323 01		
Dimensions (mm)	200 x 400 x 122 mm		

ready for connection

	SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A	MCB 16 A 1p, B	MCB 32 A 3p, C	MCB 16 A 3p, C
Fitting	3	1	1	2	1	1
Type	STV 923-K					
Order number	729 423 01					
Dimensions (mm)	200 x 400 x 122 mm					

Empty enclosure 12 modules

Fitting	
Type	STV 1222-L
Order number	731 922 01
Dimensions (mm)	250 x 400 x 122 mm

pre-wired

	SCHUKO®socket 16 A	CEE-socket 16 A
Fitting	2	2
Type	STV 1222-S16	
Order number	731 222 01	
Dimensions (mm)	250 x 400 x 122 mm	

ready for connection

	SCHUKO®socket 16 A	CEE-socket 16 A	Neozed D 01, 1p	Neozed D 01, 3p
Fitting	2	2	2	2
Type	STV 1222-KN16			
Order number	731 522 01			
Dimensions (mm)	250 x 400 x 122 mm			

STV-Socket distribution box

Empty enclosure 12 modules

Fitting	
Type	STV 1208-L
Order number	731 908 01
Dimensions (mm)	250 x 400 x 122 mm

pre-wired

	SCHUKO®socket 16 A
Fitting	8
Type	STV 1208-S
Order number	731 308 01
Dimensions (mm)	250 x 400 x 122 mm

ready for connection*

	SCHUKO®socket 16 A	MCB 16 A 1p, B	RCD 40 A 4p, 0,03 A
Fitting	8	8	1
Type	STV 1208-K		
Order number	731 408 01		
Dimensions (mm)	250 x 400 x 122 mm		

Empty enclosure 12 modules

Fitting	
Type	STV 1224-L
Order number	731 924 01
Dimensions (mm)	250 x 400 x 122 mm

pre-wired

	SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A
Fitting	4	1	1
Type	STV 1224-S		
Order number	731 324 01		
Dimensions (mm)	250 x 400 x 122 mm		

ready for connection*

	SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A	MCB 16 A 1p, B	MCB 16 A 3p, C	MCB 32 A 3p, C	RCD 40 A 4p, 0,03 A
Fitting	4	1	1	2	1	1	1
Type	STV 1224-K						
Order number	731 424 01						
Dimensions (mm)	250 x 400 x 122 mm						

ready for connection

SCHUKO®socket 16 A	CEE-socket 32 A	Neozed D 01, 1p	Neozed D 02, 3p
2	1	1	1

STV 912-KN32

729 612 01

200 x 400 x 122 mm

Empty enclosure 9 modules

STV 922-L

729 922 01

200 x 400 x 122 mm

pre-wired

SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A
2	1	1

STV 922-S

729 322 01

200 x 400 x 122 mm

ready for connection

SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A	MCB 16 A 1p, B	MCB 32 A 3p, C	MCB 16 A 3p, C
2	1	1	2	1	1

STV 922-K

729 422 01

200 x 400 x 122 mm

pre-wired

SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A
2	1	1

STV 1222-S

731 322 01

250 x 400 x 122 mm

ready for connection

SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A	Neozed D 01, 1p	Neozed D 02, 3p	Neozed D 01, 3p
2	1	1	2	1	1

STV 1222-KN

731 622 01

250 x 400 x 122 mm

ready for connection*

SCHUKO®socket 16 A	CEE-socket 16 A	CEE-socket 32 A	MCB 16 A 1p, B	MCB 16 A 3p, C	MCB 32 A 3p, C	RCD 40 A 4p, 0,03A
2	1	1	2	1	1	1

STV 1222-K

731 422 01

250 x 400 x 122 mm

pre-wired

SCHUKO®socket 16 A	CEE-socket 16 A
4	2

STV 1224-S16

731 224 01

250 x 400 x 122 mm

ready for connection*

SCHUKO®socket 16 A	CEE-socket 16 A	MCB 16 A 1p, B	MCB 16 A 3p, C	RCD 40 A 4p, 0,03 A
4	2	2	2	1

STV 1224-K16

731 624 01

250 x 400 x 122 mm

pre-wired

SCHUKO®socket 16 A	CEE-socket 32 A
4	2

STV 1224-S32

731 124 01

250 x 400 x 122 mm

ready for connection*

SCHUKO®socket 16 A	CEE-socket 32 A	MCB 16 A 1p, B	MCB 32 A 3p, B	RCD 40 A 4p, 0,03 A
4	2	2	2	1

STV 1224-K32

731 824 01

250 x 400 x 122 mm

*** Information about the use of residual current protective devices (RCDs) can be found in the Technical Appendix!**

Cable glands

IP68

Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/mm	Sealing area/mm	Order No.	Packing Qty
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses	Sealing area/mm	Order No.	Packing Qty
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

Ventilation seal

IPX4

With labyrinth seal to reduce condensation formation in housing, thermoplastic elastomer, grey, for insert in lower housing side

BST M20 f. wall thicknesses 1.5 - 4.5 mm	262 420 01	600/100

Cable cover

300 x 125 x 90 mm

For installation in the components of the AK enclosure system for 300 mm wide end walls (AKL, AKZ, ...), the distribution boxes from AK/AKi 14 and from AK/AKi 14 Plus are provided with cable covers as standard

AK KBL	792 400 01	1/1

AK Combi set

IP30

Combi set without intermediate enclosure seal,
for horizontal or vertical combination of all AK enclosures from 300 x 150 mm,
1 set = 10 wedge connectors

AK KS-IP30	591 100 01	1/1

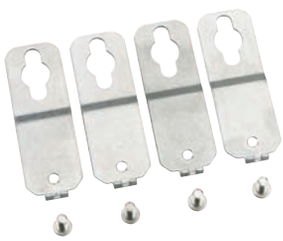
Board Case

Description	Order No.	Packing Qty
For closing off unused circuit-breaker positions, width 54 mm for 3 way units, for 35 mm standard rail, e.g. to house fuses, operating instructions, etc.		
AK BC	799 103 01	1/1

Lock fittings

For fitting to hinged doors of distribution boxes AK 03 to AK/AKi 70 and AK/AKi Plus 14 to 56, with 2 keys and installation instructions		
AK SGA-1 Identical locks	706 102 01	1/1
AK SGA-2 Different closures	706 902 01	1/1

AK External attachment set



External fixing lugs, for mounting of separate enclosures or small units on flat wall surfaces, may be fixed to the bottom of the enclosure at an angle of 0°, 45°, or 90°, wall gap 7 mm		
AK ABL-ES Set = 4 pieces	793 004 01	50/1

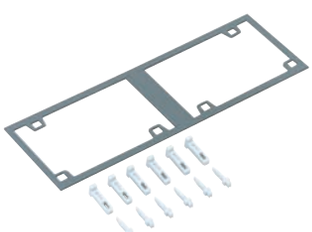
Z-wall profile

2000 mm

Z-Wall profile, Zinc coated, length 2 m, with 8 cap-head screws and 8 captive push-fit nuts, wall gap 70 mm		
ZPR	070 800 01	1/1

AK Combi set

IP65



For horizontal or vertical combination of all AK enclosures from 300 x 150 mm, complete with wedge connectors and intermediate sealing for 150 and 300 mm enclosure sides each 300 mm = 1 combi set		
AK KS-IP65	791 001 01	100/1

Photovoltaics – the market of the future

Put your money on the right partner

PV junction boxes

Generator isolation housings
for inverters with up to three inputs

Generator isolation housings
for strings connected in parallel

PV enclosures
for terminal blocks

Photovoltaics – the market of the future
Content

	Protection	Application	Type	Page
	IP65	**PV-junction boxes**	PV 48	210-211
Generator isolation housings				
	IP65	**Generator isolation housings** for strings connected in parallel	GF	212-217
	IP65	**Generator isolation housings** for inverters with up to three inputs	GF 2 x 2, GF 2 x 3	218-219
PV enclosures for terminal blocks				
	IP66	**Empty**	RK-PV Empty	220
	IP66	**Fitted out with terminals**	RK-PV	220
	IP66	**Fitted out with terminals and over-voltage protection**	RK-PV ÜSS	220

PV - Junction Box

PV 48

IP65 | 6² | IK07 | 1000V DC | 15 A | halogen-free | Industrial quality

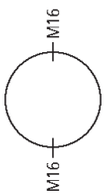
- Easy cabling extension saves time
- The most flexible PV installations

- Proven connection technology for maximum safety
- Unrestricted connections possible up to 6 mm²

- Safe investment since no special tools are needed
=> no crimping, no shrinking

- Temperature range -40°C to +85°C
- Standards-compliant installation

PV 48
Ø 48 mm



Description	Order No.	Packing Qty
PV junction box, - **I**ndustrial **Q**uality - according to DIN VDE 0126-5, max. cable cross-section 6 mm², with cable glands, M16, included, sealing range 4 - 7 mm		
IP65 · 6² · IK07 · 1000V DC · 15 A · halogen-free		
PV 48 black, 1-pole - 6 mm², (2 x 6²), with cage clamp terminals	497 402 01	100/5

Our surge protection

Details of our surge protection	
SPD-classification as per EN 61643-11	Type 2
SPD-classification as per EN 61643-1	Class II
Maximum PV voltage [UPV_{max}]	< 1000 V
Total leakage impulse current (8/20) [I_{total}]	40 kA
Rated leakage impulse current (8/20) [(DC+/DC-) -> PE] (I_n)	12.5 kA
Maximum leakage impulse current (8/20) [(DC+/DC-) -> PE] (I_{max})	25 kA
Protection level [Up]	< 4kV
Protection level at 5 kA [Up]	< 3.5kV
Response time (t_A)	< 25 ns
Working temperature range (T_U)	-40°C...+80°C
Switch-off capacity of the internal fuse	30 kA / 1000 V DC
Function / failure display	green/red
Cross-section of connection (min.)	1.5 mm² single/fine wire
Cross-section of connection (max.)	35 mm² multiple wire, 25 mm² fine wire
Protection class	IP20
Installation dimensions	3 units, DIN 43880

Generator isolation housings

for photovoltaic systems compliant with IEC 60364-7-712

IP65 IK08 1000V DC PC -35°C +80°C halogen-free

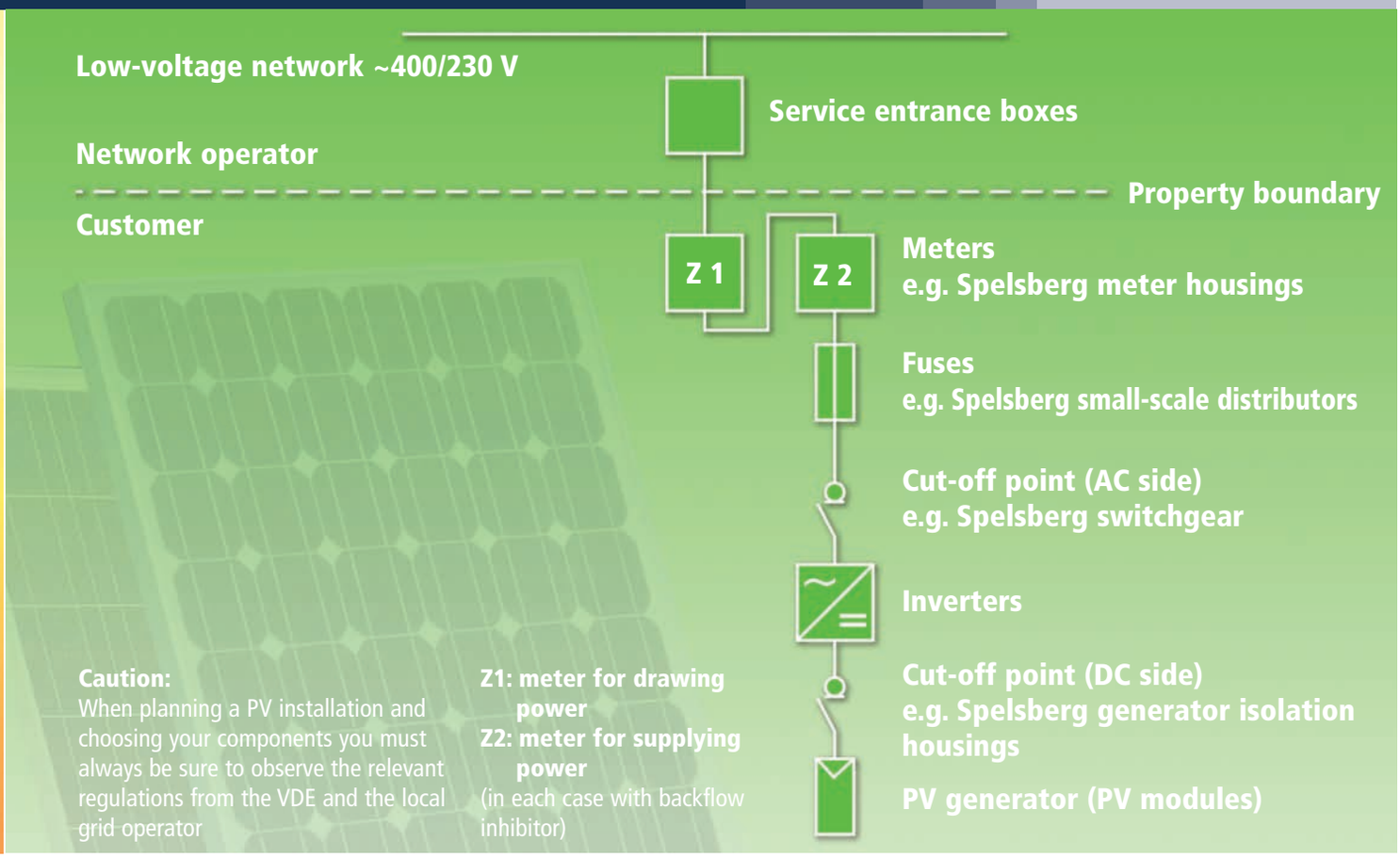
- Future-proof housings that comply with the international standard IEC 60364 7 712 (DIN VDE 0100 part 712)

- DIN EN 60439-1
- Protection class II
- Protection level IP 65
- Variant manufacture

- System components from noted manufacturers
- Special solutions on request

- Safety in hazardous situations!
- Only brief downtime and safety while servicing!
- Partial deactivation of individual strings is also possible!

Setting up a grid-coupled photovoltaic installation



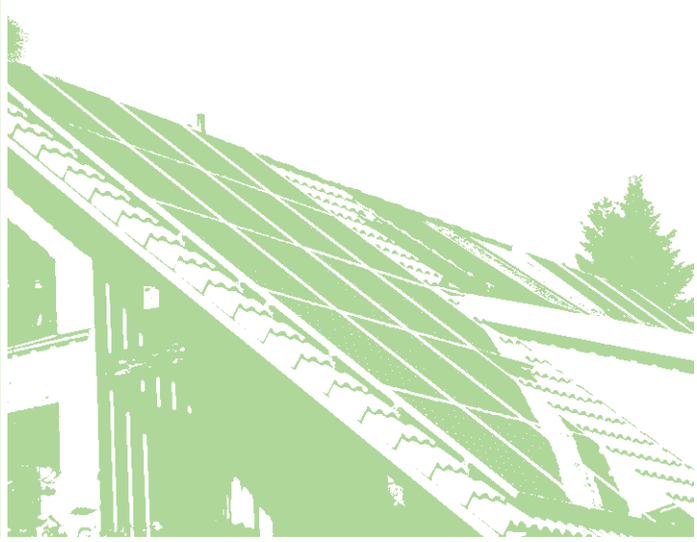
Caution:
When planning a PV installation and choosing your components you must always be sure to observe the relevant regulations from the VDE and the local grid operator

Z1: meter for drawing power
Z2: meter for supplying power
(in each case with backflow inhibitor)

Because of their power source characteristic, photovoltaic systems are subject to more stringent switch-off conditions than conventional building installations.
The standard IEC 60364-7-712 (DIN VDE 0100 part 712) provides for an easily accessible disconnection mechanism between the PV generator and the PV inverter.

In installations that do not possess a lightning arrestor (LPS), the external lines L+ and L- of the main PV DC cable or line should be safeguarded by means of surge protectors arranged close to the inverter.

In this context you must be sure to observe the following:
- DIN EN 62305 -2..4 (DIN VDE 0185-305-2..4)
- VdS 2010
- the applicable state building regulations



Special solutions for house systems and solar parks
From standard to customised solutions

As a manufacturer of high-quality enclosure systems with many years of experience on the areas of solar power and switchgear construction, Spelsberg is a competent advisor on and supplier of generator isolation housings.

Alongside our universally applicable standard programme we can also manufacture solutions for house installations or solar parks that are customised to suit your requirements.

Your requirements are implemented promptly and absolutely professionally. Using CAD and the very latest 3D processing centres we can manufacture enclosures with drilled or milled openings, engravings, inscriptions or logos, or even create entirely new enclosures for your particular application. Give us a call!

- **Planning**
- **Project planning**
- **Development**
- **Design**
- **Construction of prototypes**
- **Production**
- **Testing**
- **Brand labelling**
- **Certification**
- **Ongoing further development**

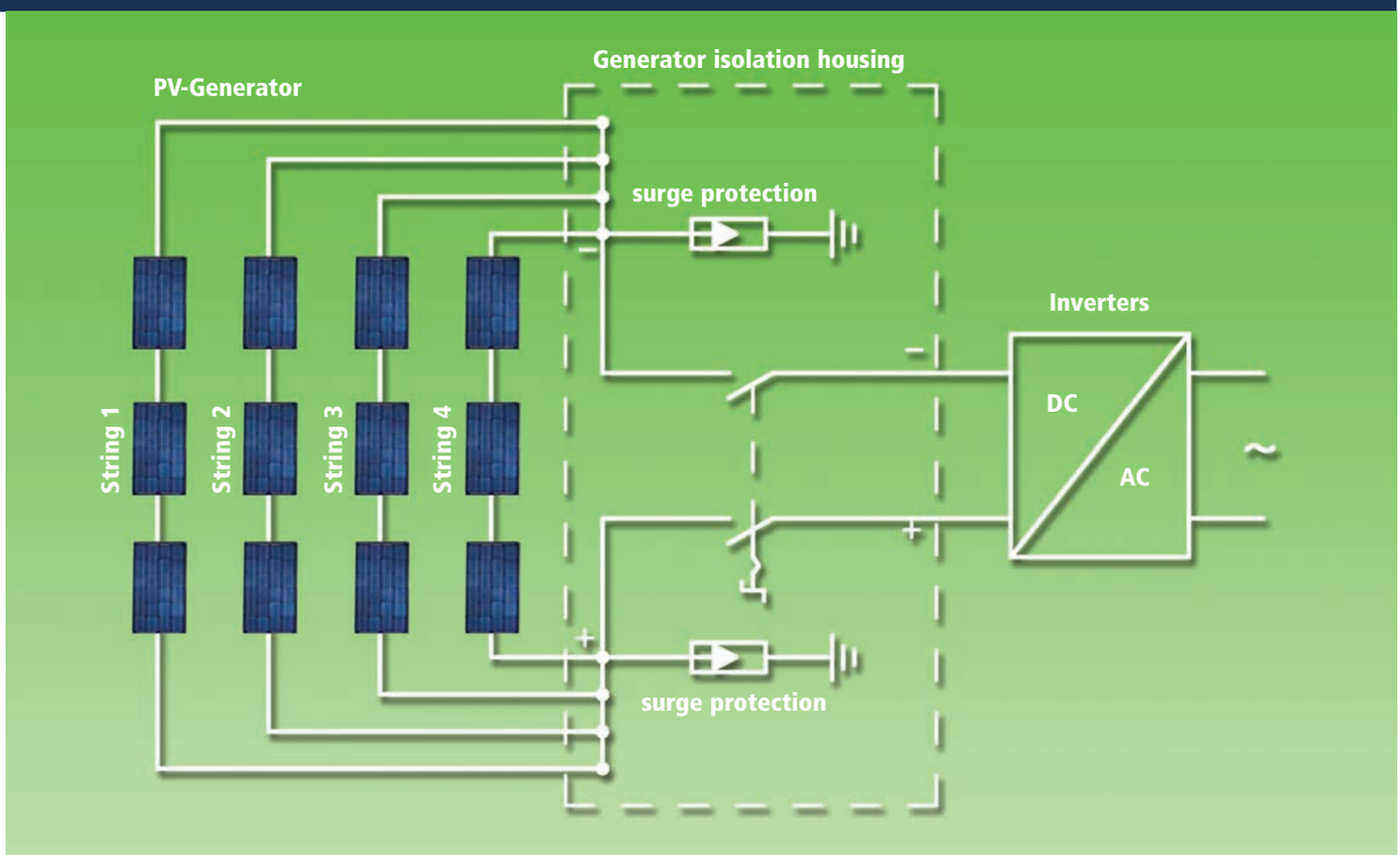
The advantages at a glance

With Spelsberg's generator isolation housings you will always be on the safe side

- Safety in hazardous situations!
- Safety while servicing!
- Only brief downtime while servicing!
- Partial deactivation of individual strings is also possible!
- Future-proof housings that comply with the international standard IEC 60364-7-712 (DIN VDE 0100 part 712)

Generator isolation housings
for strings connected in parallel

IP65 | IK 08 | 1000V DC | PC | -35°C +80°C | halogen-free | Industrial quality



General

These generator isolation housings are designed to be operated on string inverters that permit connection via a single input. Depending on the configuration, this can take up to eight strings connected in parallel, which are then taken via a single output to the inverter.

The external lines L+ and L- are each safeguarded by a surge protection element with a failure display. Each housing is supplied as a ready-to-install unit, so that the fitter only needs to install the supplied screwed cable glands in the openings.

Spelsberg's generator isolation housings are fully assembled and wired in compliance with **EN 60439-1**

General technical details

Housing
Protection class IP65
(as per EN 60529 / DIN VDE 0470-1)
Impact strength: IK 08
(as per DIN EN 50102/ VDE 0470-100)

Boxes
Polycarbonate
15% fibreglass reinforced,
grey similar to RAL 7035

Hinged windows
Polycarbonate, transparent

Generator isolation housing SPD

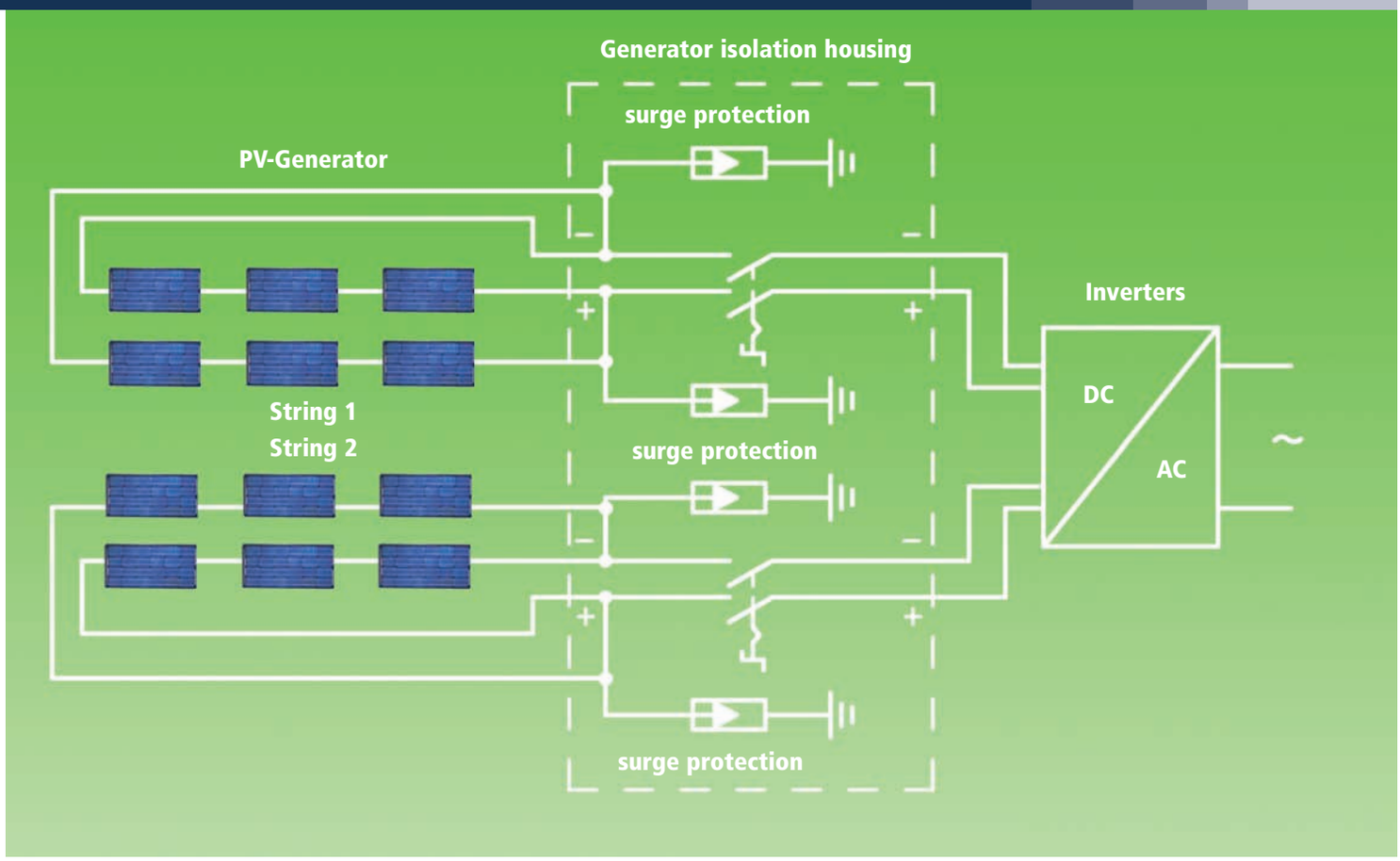
Description		Order No.	Packing Qty
Generator isolation housing, with surge protection device, for use in lightning protection zone concept at interfaces 0_B - 1 and higher, for up to 8 strings connected in parallel, with DC switch disconnector, max. cable cross-section 6 mm², with cable glands, M20, included, sealing range 4 - 10 mm, with insulating seals			
	Dimensions/mm		
GF2 500-16 ÜSS	200 x 200 x 122	178 253 01	6/1
GF2 800-16 ÜSS	200 x 200 x 122	178 254 01	1/1
GF4 500-16 ÜSS	250 x 200 x 122	178 453 01	4/1
GF4 800-16 ÜSS	300 x 300 x 142	178 454 01	1/1
GF4 500-25 ÜSS	250 x 200 x 122	178 463 01	4/1
GF4 800-25 ÜSS	300 x 300 x 142	178 473 01	1/1
GF4 1000-25 ÜSS	254 x 180 x 111	177 473 01	6/1
GF8 500-25 ÜSS	300 x 300 x 142	178 863 01	1/1
GF8 800-25 ÜSS	300 x 450 x 142	178 873 01	1/1

Generator isolation housing

Generator isolation housing, for up to 8 strings connected in parallel, with DC switch disconnector, max. cable cross-section 6 mm², with cable glands, M20, included, sealing range 4 - 10 mm, with insulating seals			
	Dimensions/mm		
GF1 500-16	200 x 125 x 122	178 102 01	9/1
GF1 800-16	200 x 125 x 122	178 103 01	9/1
GF2 500-16	200 x 125 x 122	178 202 01	9/1
GF2 800-16	300 x 300 x 142	178 203 01	6/1
GF4 500-16	200 x 200 x 122	178 402 01	6/1
GF4 800-16	250 x 200 x 122	178 403 01	4/1
GF4 500-25	200 x 200 x 122	178 412 01	6/1
GF4 800-25	300 x 300 x 142	178 423 01	4/1
GF4 1000-25	254 x 180 x 111	177 423 01	6/1
GF8 500-25	250 x 200 x 122	178 812 01	4/1
GF8 800-25	300 x 300 x 142	178 813 01	1/1

Generator isolation housings
for inverters with up to three inputs

IP66 | IK08 | 1000V DC | PC | -35°C +80°C | halogen-free | Industrial quality



General

These generator isolation housings are designed to be operated on string inverters that permit connection via 3 single inputs. Depending on the configuration, this can take up to eight strings connected in parallel, which are then taken via a single output to the inverter.

The external lines L+ and L- are each safeguarded by a surge protection element with a failure display.

Each housing is supplied as a ready-to-install unit so that the fitter only needs to install the supplied screwed cable glands in the openings.
In the types that have surge protection, the external lines L+ and L- are each safeguarded by a surge diverter with a failure display.

Spelsberg generator isolation housings are fully assembled and wired in compliance with **EN 60439-1**

General technical details

Housing
Protection class IP65
(as per EN 60529/ DIN VDE 0470-1)
Impact strength: IK 08 (as per DIN EN 50102/ VDE 0470-100)

Boxes
Polycarbonate, grey,
similar to RAL 7035

Generator isolation housing SPD

Description	Order No.	Packing Qty
Generator isolation housing, with surge protection device, for use in lightning protection zone concept at interfaces 0_B - 1 and higher, with up to 3 DC switch disconnectors, for up to 2 strings connected in parallel for each switch disconnector, max. cable cross-section 6 mm², with cable glands, M20, included, sealing range 4 - 10 mm, with insulating seals		

IP65 IK08

	Dimensions/mm		
GF2x2 800-16 ÜSS	250 x 370 x 122	178 275 01	2/1
GF2x3 800-16 ÜSS	300 x 600 x 142	178 375 01	1/1

Generator isolation housing

Generator isolation housing, with up to 3 DC switch disconnectors, for up to 2 strings connected in parallel for each switch disconnector, max. cable cross-section 6 mm², with cable glands, M20, included, sealing range 4 - 10 mm, with insulating seals

IP65 IK08

	Dimensions/mm		
GF2x2 800-16	250 x 370 x 122	178 223 01	1/1
GF2x3 800-16	300 x 600 x 142	178 323 01	1/1

PV terminal block housing SPD

Description			Order No.	Packing Qty
PV terminal block housing, with surge protection device, for use in lightning protection zone concept at interfaces 0_B - 1 and higher, for up to 8 strings connected in parallel, max. cable cross-section 6 mm², with cable glands, M16, included, sealing range 4 - 10 mm, with insulating seals				
	Strings	**Dimensions/mm**		
RK-PV 4 ÜSS	4	180 x 182 x 90	677 454 01	8/2
RK-PV 8 ÜSS	8	254 x 180 x 90	677 854 01	8/1

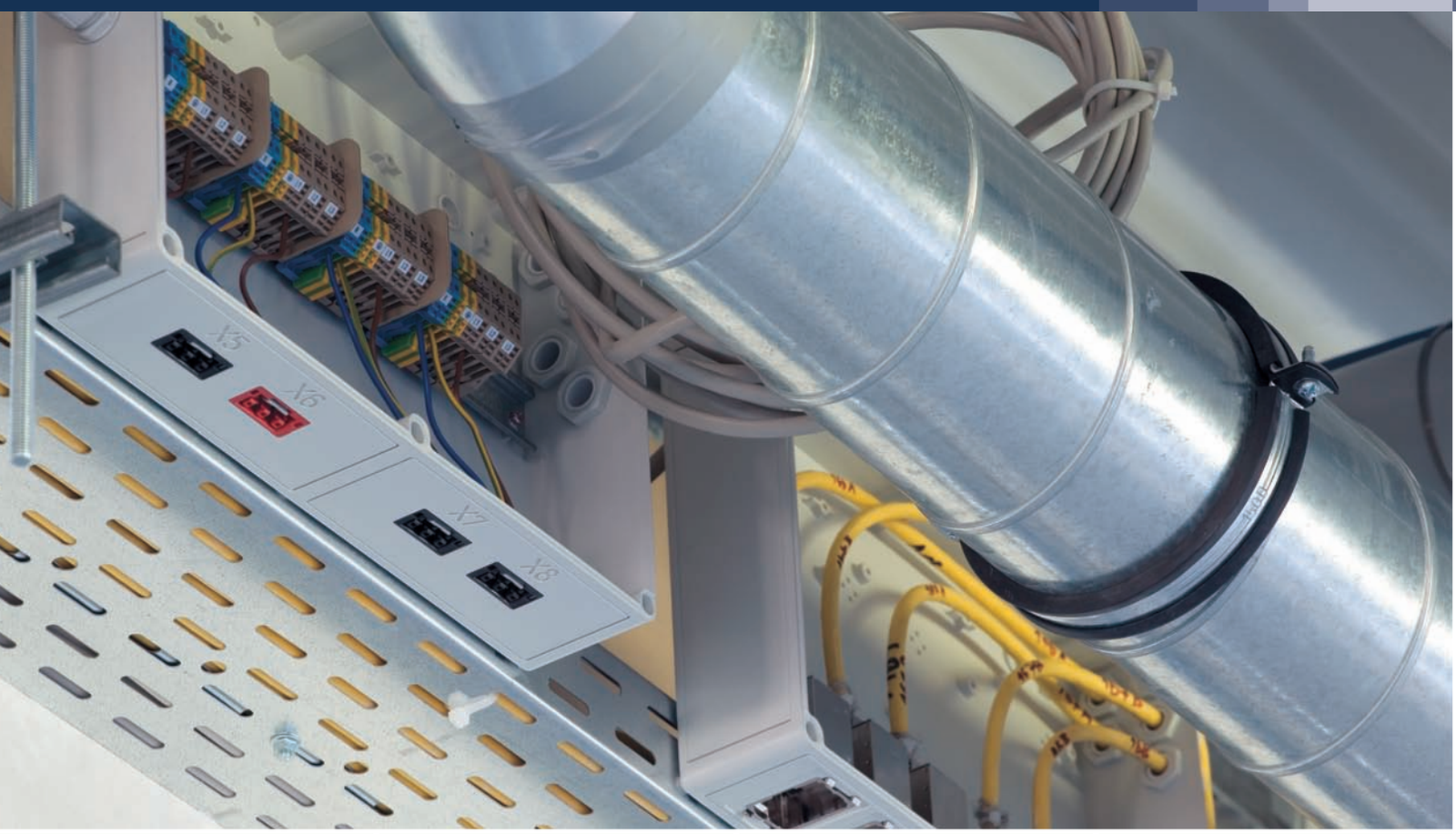
PV terminal block housing

Description			Order No.	Packing Qty
PV terminal block housing, for up to 8 strings connected in parallel, max. cable cross-section 6 mm², with cable glands, M16, included, sealing range 4 - 10 mm, with insulating seals				
	Strings	**Dimensions/mm**		
RK-PV 4	4	180 x 182 x 90	677 403 01	8/2
RK-PV 8	8	254 x 180 x 90	677 803 01	8/1

PV terminal block housing (empty)

Description			Order No.	Packing Qty
PV terminal block housing (empty), with standard rails NS 35, with cable glands, M16, included, sealing range 4 - 10 mm, with insulating seals				
	Strings	**Dimensions/mm**		
RK-PV 4-L	4	180 x 182 x 90	677 400 01	8/2
RK-PV 8-L	8	254 x 180 x 90	677 800 01	8/1

Empty enclosures



TK-Empty enclosure
Plastic: optional Polystyrene or glass-fibre-reinforced Polycarbonate

AKL-Empty enclosure
Plastic: Polystyrene

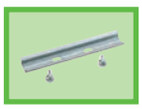
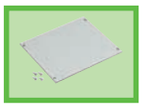
AKi-Empty enclosure
Plastic: Polystyrene and glass-fibre-reinforced Polycarbonate

TG-Empty enclosure
Plastic, optionally ABS (TG ABS) or polycarbonate (TG PC)

AL-Empty enclosure
Aluminium - Al Si 12

iQ - **I**ndustrial **Q**uality
All products of series that are specially designed for industrial applications and end in ***"-I"*** can be identified by the blue background.

Empty enclosures
Contents

	Protection	Size	Type	Material	Page
	IP66	**65 x 65 mm** up to **360 x 254 mm**	TK-PS	Polystyrene	224-257
	IP66	**50 x 52 mm** up to **360 x 254 mm**	TK-PC	Polycarbonate	224-257
	IP67	**84 x 82 mm** up to **302 x 232 mm**	TG	ABS	264-297
	IP67	**84 x 82 mm** up to **302 x 232 mm**	TG	Polycarbonate	264-297
	IP65	**150 x 300 mm** up to **300 x 600 mm**	AKL	Box: Polystyrene Cover: Polycarbonate	300-309
	IP65	**150 x 300 mm** up to **300 x 600 mm**	AKi-L	Polycarbonate	300-309
	IP66	**50 x 45 mm** up to **330 x 230 mm**	AL	Aluminium	314-319
	**Accessories TK**				258-263
	**Accessories TG**				298-299
	Accessories AKL/AKi-L				310-313
	Accessories AL				320-321
	General Accessories Empty Enclosure				322-323

TK-PS / TK-PC Empty enclosures

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | **Industrial quality**

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

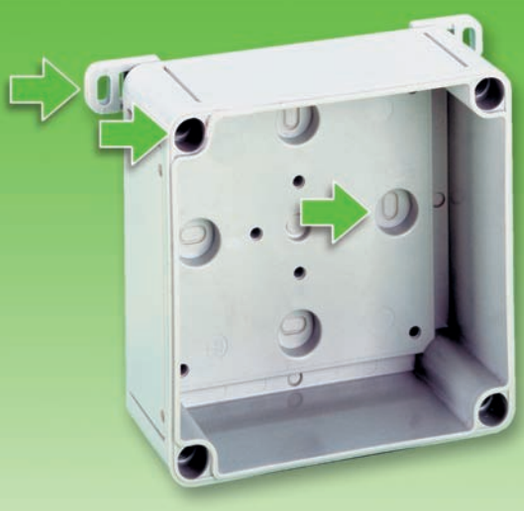
Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

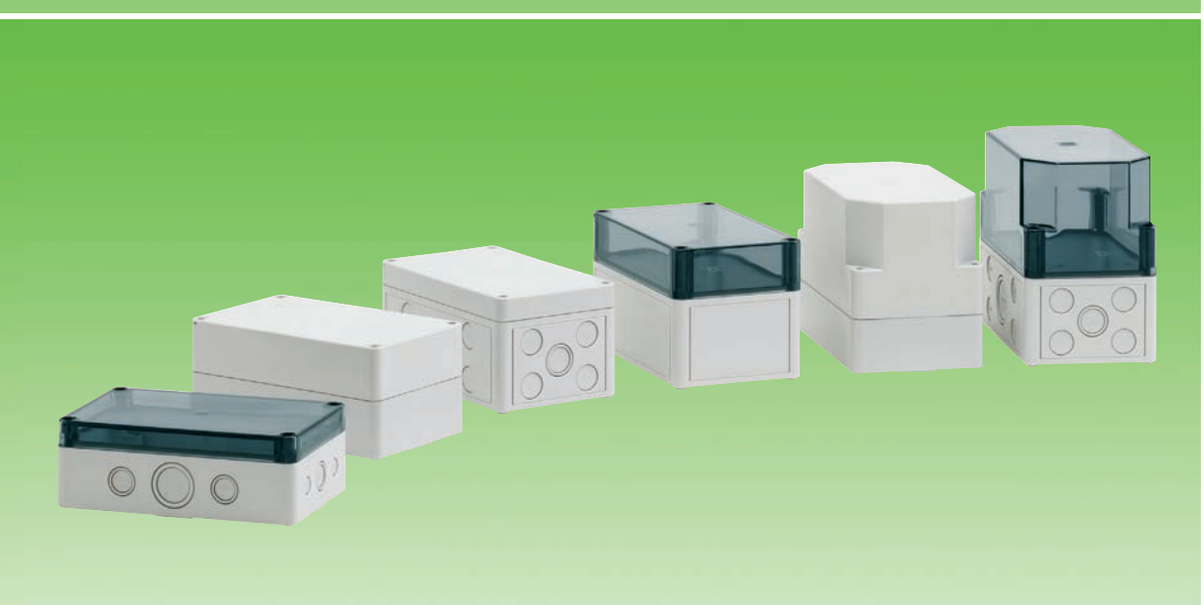
m= metric
o= without pre-embossing
v= with moulded cable gland



TK-empty enclosures

- **IP 66**
- **Plastic: optional Polystyrene or glass-fibre-reinforced Polycarbonate**
- **shockproof**
- **temperature-resistant**
- **Individual choice of fixing**
- **13 basic enclosures with up to 3 different cover heights extensive accessories**
- **Quality documented by quality marks and approvals**

▲▲ **Practical combinations -next to each other or one above the other**



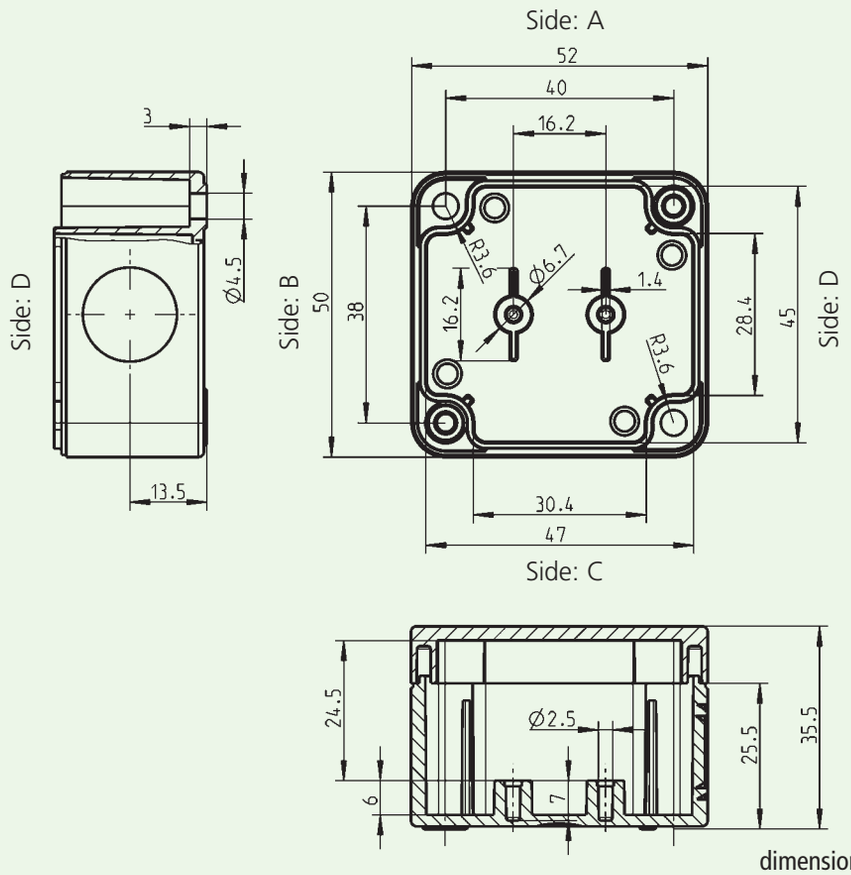
From development up to the manufacturing - from one source
Customers' individual enclosures are drawn in 3D and the first prototypes are manufactured in our own tool manufacture. If required, these enclosures will also be assembled or completely confectioned.

Special solutions
- **with UL-approval**
- **with ATEX-approval**
- **HF for EMC-application**

120 455 01

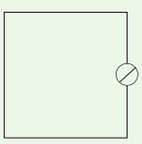
129 455 01

Example of application



dimensions in mm

Enclosures with embossing



Metric Types

⊘ = M 12/16

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	1	1
16	1	1
20	-	-
25	-	-
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PC 55

52 x 50 mm

Description

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Sealing area/mm	Order No.	Packing Qty
TK PC 55-4-m	35		127 455 01	60/5
TK PC 55-4-v	35	5 - 10	129 455 01	60/5
TK PC 55-4-o	35		120 455 01	60/5

TK PC 55

52 x 50 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
Cover: Polycarbonate, transparent

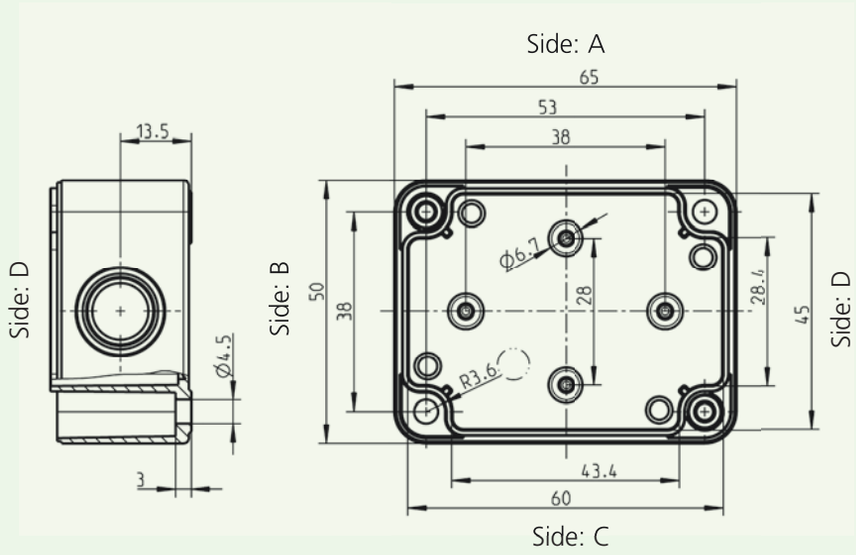
IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Sealing area/mm	Order No.	Packing Qty
TK PC 55-4-tm	35		137 455 01	60/5
TK PC 55-4-tv	35	5 - 10	139 455 01	60/5
TK PC 55-4-to	35		130 455 01	40/1

120 475 01

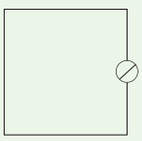
129 475 01

Example of application



dimensions in mm

Enclosures with embossing



Metric Types

⊘ = M 12/16

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	2	1
16	1	1
20	-	-
25	-	-
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PC 75

65 x 50 mm

Description

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 IK08 690V AC 1000V DC halogen-free

	height/mm	Sealing area/mm	Order No.	Packing Qty
TK PC 75-4-m	35		127 475 01	45/5
TK PC 75-4-v	35	5 - 10	129 475 01	45/5
TK PC 75-4-o	35		120 475 01	50/1

TK PC 75

65 x 50 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 IK08 690V AC 1000V DC halogen-free

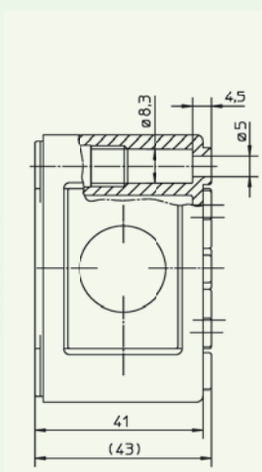
	height/mm	Sealing area/mm	Order No.	Packing Qty
TK PC 75-4-tm	35		137 475 01	45/5
TK PC 75-4-tv	35	5 - 10	139 475 01	45/5
TK PC 75-4-to	35		130 475 01	45/5

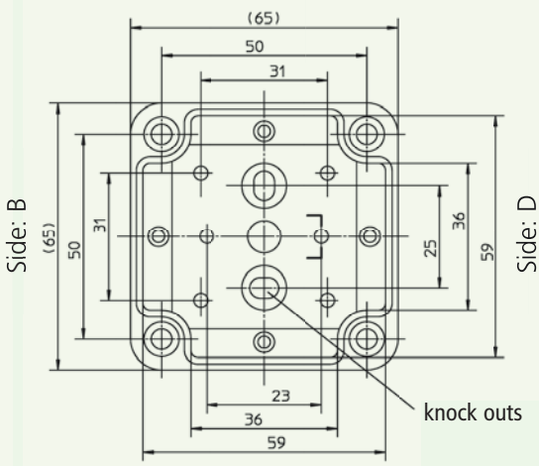
110 901 01

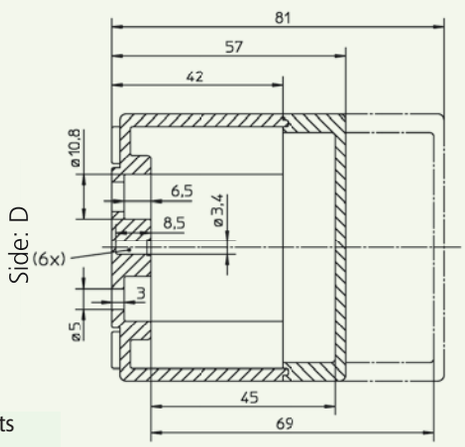
106 001 01

Example of application

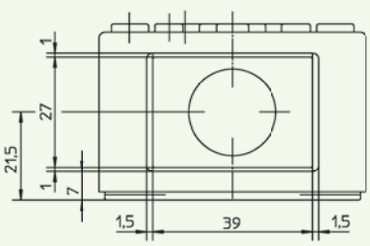
Side: A







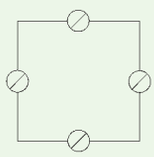
Side: C



Side: A + C

dimensions in mm

Enclosures with embossing



Metric Types

⌀ = M 16/20

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	2	2
16	1	1
20	1	1
25	-	-
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 77
65 x 65 mm

Description

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 77-6-m	57	105 401 01	40/5
TK PS 77-8-m	81	105 901 01	45/5
TK PS 77-6-o	57	110 401 01	40/5
TK PS 77-8-o	81	110 901 01	45/5

TK PS 77
65 x 65 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 77-6-tm	57	106 001 01	40/5
TK PS 77-8-tm	81	106 501 01	45/5
TK PS 77-6-to	57	111 001 01	40/5
TK PS 77-8-to	81	111 501 01	45/5

TK PC 77
65 x 65 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 77-6-m	57	127 401 01	40/5
TK PC 77-8-m	81	127 901 01	45/5

TK PC 77
65 x 65 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

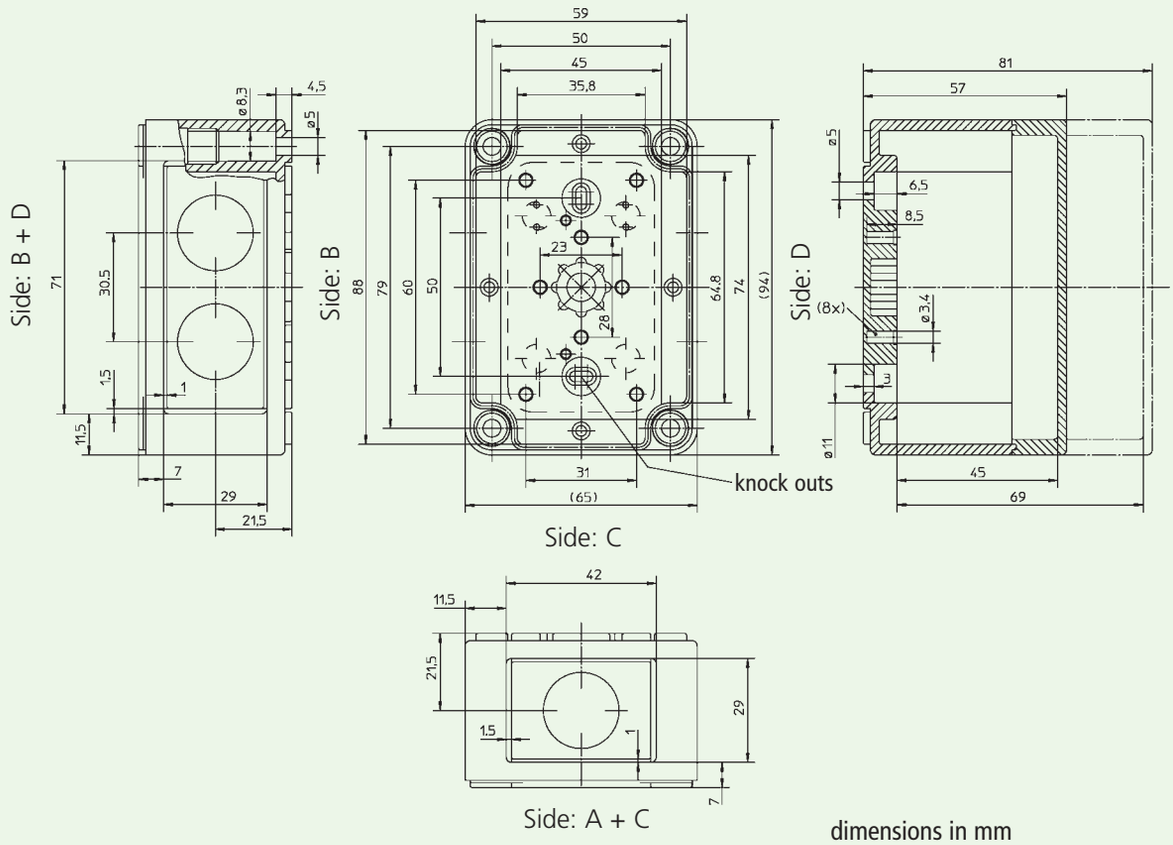
	height/mm	Order No.	Packing Qty
TK PC 77-6-tm	57	137 001 01	40/5
TK PC 77-8-tm	81	137 501 01	45/5

105 402 01

110 402 01

Example of application

Side: A

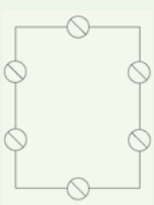


Side: C

Side: A + C

dimensions in mm

Enclosures with embossing



Metric Types

⌀ = M 16/20

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	2	3
16	1	2
20	1	2
25	1	1
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 97
94 x 65 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 97-6-m	57	105 402 01	25/5
TK PS 97-8-m	81	105 902 01	15/5
TK PS 97-6-o	57	110 402 01	25/5
TK PS 97-8-o	81	110 902 01	15/5

TK PS 97
94 x 65 mm

Empty enclosures, U_i=690V, box: Polystyrene, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 97-6-tm	57	106 002 01	25/5
TK PS 97-8-tm	81	106 502 01	15/5
TK PS 97-6-to	57	111 002 01	25/5
TK PS 97-8-to	81	111 502 01	15/5

TK PC 97
94 x 65 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | iQ

	height/mm	Order No.	Packing Qty
TK PC 97-6-m	57	127 402 01	25/5
TK PC 97-8-m	81	127 902 01	15/5

TK PC 97
94 x 65 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | iQ

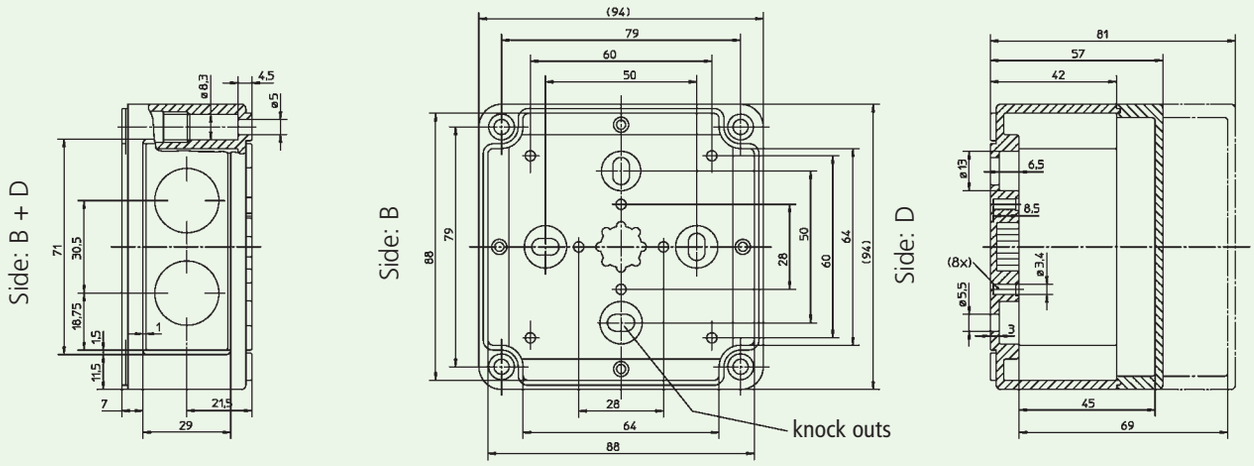
	height/mm	Order No.	Packing Qty
TK PC 97-6-tm	57	137 002 01	25/5
TK PC 97-8-tm	81	137 502 01	15/5

127 903 01

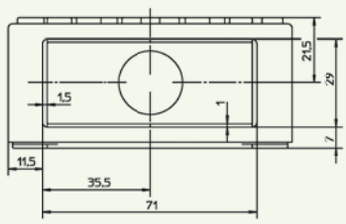
111 003 01

Example of application

Side: A

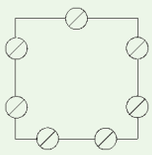


Side: C



dimensions in mm

Enclosures with embossing



Metric Types

⊘ = M 16/20

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	3	3
16	2	2
20	2	2
25	-	-
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 99
94 x 94 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 99-6-m	57	105 403 01	40/4
TK PS 99-8-m	81	105 903 01	30/3
TK PS 99-6-o	57	110 403 01	40/4
TK PS 99-8-o	81	110 903 01	30/3

TK PS 99
94 x 94 mm

Empty enclosures, U_i=690V, box: Polystyrene, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 99-6-tm	57	106 003 01	40/4
TK PS 99-8-tm	81	106 503 01	30/3
TK PS 99-6-to	57	111 003 01	40/4
TK PS 99-8-to	81	111 503 01	30/3

TK PC 99
94 x 94 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 99-6-m	57	127 403 01	40/4
TK PC 99-8-m	81	127 903 01	30/3

TK PC 99
94 x 94 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

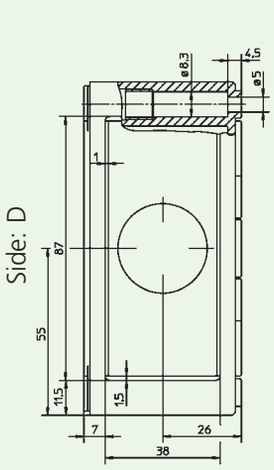
	height/mm	Order No.	Packing Qty
TK PC 99-6-tm	57	137 003 01	40/4
TK PC 99-8-tm	81	137 503 01	30/3

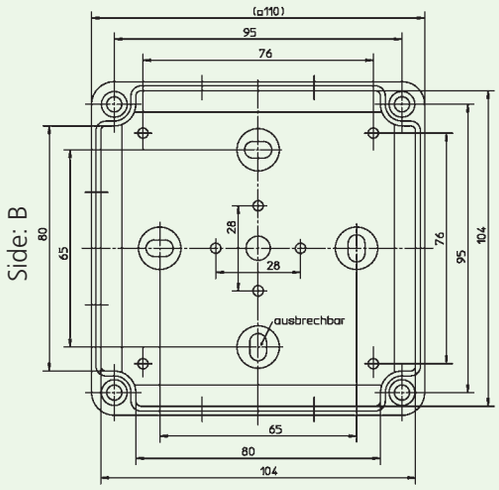
110 904 01

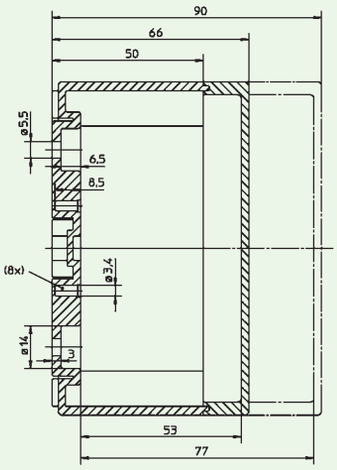
106 004 01

Example of application

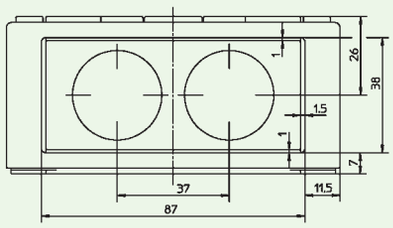
Side: A







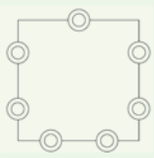
Side: C



Side: A + B + C

dimensions in mm

Enclosures with embossing



Metric Types

◎ = M 20/25

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	8	8
16	4	4
20	2	2
25	2	2
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1111
110 x 110 mm

Description

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1111-7-m	66	105 404 01	21/3
TK PS 1111-9-m	90	105 904 01	12/3
TK PS 1111-7-o	66	110 404 01	21/3
TK PS 1111-9-o	90	110 904 01	12/3

TK PS 1111
110 x 110 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1111-7-tm	66	106 004 01	21/3
TK PS 1111-9-tm	90	106 504 01	12/3
TK PS 1111-7-to	66	111 004 01	21/3
TK PS 1111-9-to	90	111 504 01	12/3

TK PC 1111
110 x 110 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | IQ

	height/mm	Order No.	Packing Qty
TK PC 1111-7-m	66	127 404 01	21/3
TK PC 1111-9-m	90	127 904 01	12/3

TK PC 1111
110 x 110 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | IQ

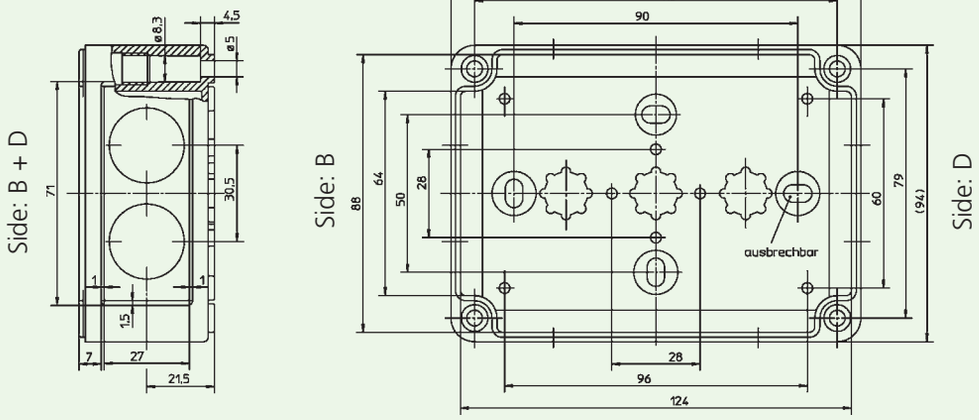
	height/mm	Order No.	Packing Qty
TK PC 1111-7-tm	66	137 004 01	21/3
TK PC 1111-9-tm	90	137 504 01	12/3

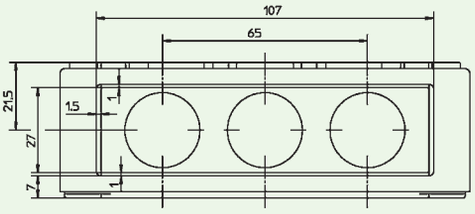
110 909 01

106 009 01

Example of application

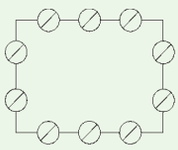
Side: A





dimensions in mm

Enclosures with embossing



Metric Types

⌀ = M 16/20

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	5	3
16	4	2
20	3	2
25	2	1
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1309
130 x 94 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1309-6-m	57	105 409 01	30/3
TK PS 1309-8-m	81	105 909 01	21/3
TK PS 1309-6-o	57	110 409 01	30/3
TK PS 1309-8-o	81	110 909 01	21/3

TK PS 1309
130 x 94 mm

Empty enclosures, U_i=690V, box: Polystyrene, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1309-6-tm	57	106 009 01	30/3
TK PS 1309-8-tm	81	106 509 01	21/3
TK PS 1309-6-to	57	111 009 01	30/3
TK PS 1309-8-to	81	111 509 01	21/3

TK PC 1309
130 x 94 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 1309-6-m	57	127 409 01	30/3
TK PC 1309-8-m	81	127 909 01	21/3

TK PC 1309
130 x 94 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

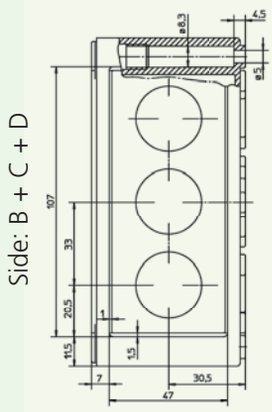
	height/mm	Order No.	Packing Qty
TK PC 1309-6-tm	57	137 009 01	30/3
TK PC 1309-8-tm	81	137 509 01	21/3

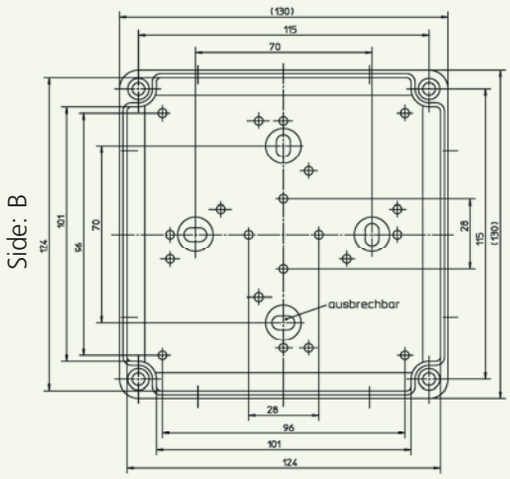
106 005 01

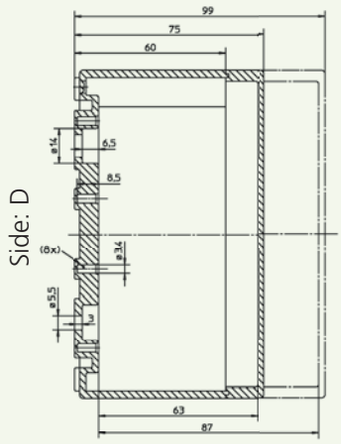
110 905 01

Example of application

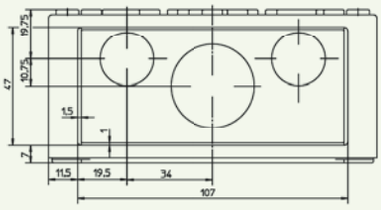
Side: A







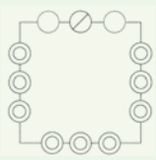
Side: C



Side: A

dimensions in mm

Enclosures with embossing



Metric Types

○ = M 20

◎ = M 20/25

⊘ = M 25/32

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	10	10
16	6	6
20	3	3
25	3	3
32	2	2
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1313
130 x 130 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1313-7-m	75	105 405 01	14/2
TK PS 1313-10-m	99	105 905 01	8/2
TK PS 1313-7-o	75	110 405 01	14/2
TK PS 1313-10-o	99	110 905 01	8/2

TK PS 1313
130 x 130 mm

Empty enclosures, U_i=690V, box: Polystyrene, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1313-7-tm	75	106 005 01	14/2
TK PS 1313-10-tm	99	106 505 01	8/2
TK PS 1313-7-to	75	111 005 01	14/2
TK PS 1313-10-to	99	111 505 01	8/2

TK PC 1313
130 x 130 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 1313-7-m	75	127 405 01	14/2
TK PC 1313-10-m	99	127 905 01	8/2

TK PC 1313
130 x 130 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

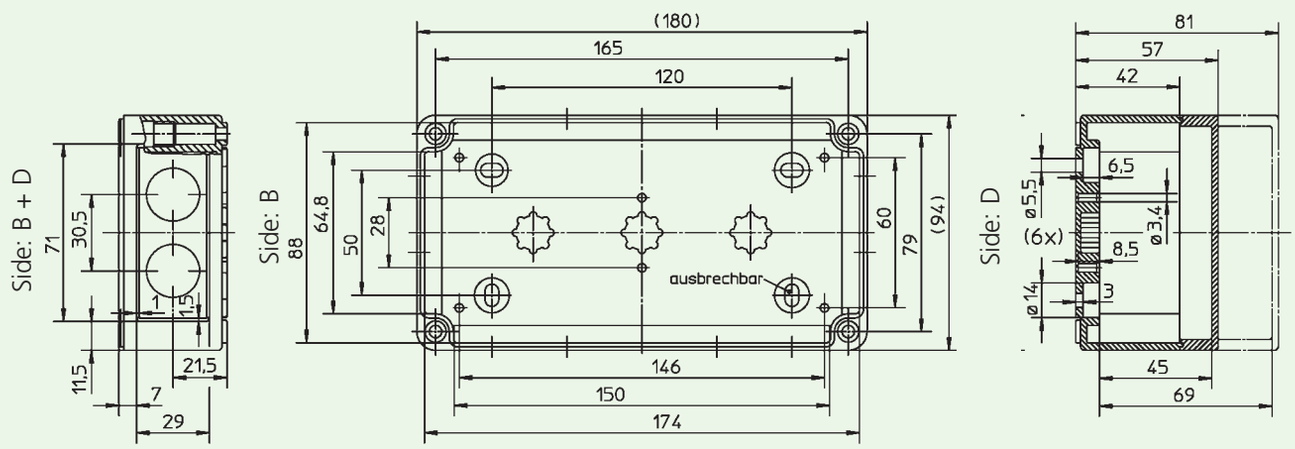
	height/mm	Order No.	Packing Qty
TK PC 1313-7-tm	75	137 005 01	14/2
TK PC 1313-10-tm	99	137 505 01	8/2

110 910 01

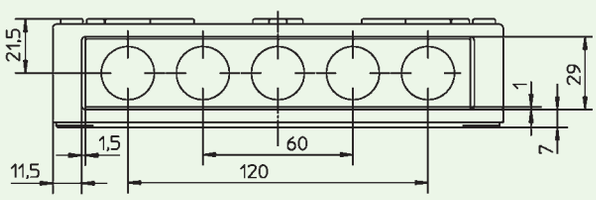
111 510 01

Example of application

Side: A



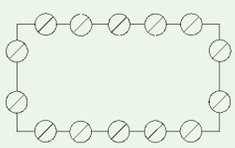
Side: C



Side: A + C

dimensions in mm

Enclosures with embossing



Metric Types

⊘ = M 16/20

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	8	3
16	6	2
20	5	2
25	4	1
32	-	-
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1809
180 x 94 mm

Description

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1809-6-m	57	105 410 01	20/2
TK PS 1809-8-m	81	105 910 01	14/2
TK PS 1809-6-o	57	110 410 01	20/2
TK PS 1809-8-o	81	110 910 01	14/2

TK PS 1809
180 x 94 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1809-6-tm	57	106 010 01	20/2
TK PS 1809-8-tm	81	106 510 01	14/2
TK PS 1809-6-to	57	111 010 01	20/2
TK PS 1809-8-to	81	111 510 01	14/2

TK PC 1809
180 x 94 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | iQ

	height/mm	Order No.	Packing Qty
TK PC 1809-6-m	57	127 410 01	20/2
TK PC 1809-8-m	81	127 910 01	14/2

TK PC 1809
180 x 94 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free | iQ

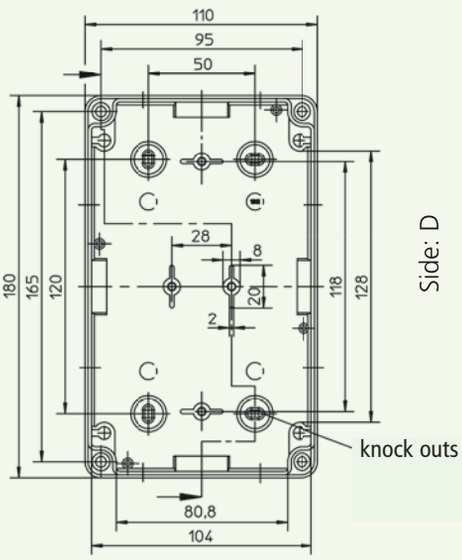
	height/mm	Order No.	Packing Qty
TK PC 1809-6-tm	57	137 010 01	20/2
TK PC 1809-8-tm	81	137 510 01	14/2

127 914 01

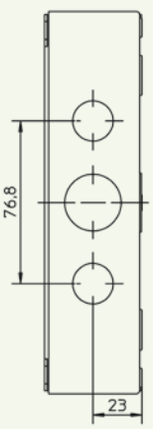
137 014 01

Example of application

Side: A



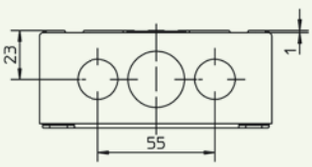
Side: B + D



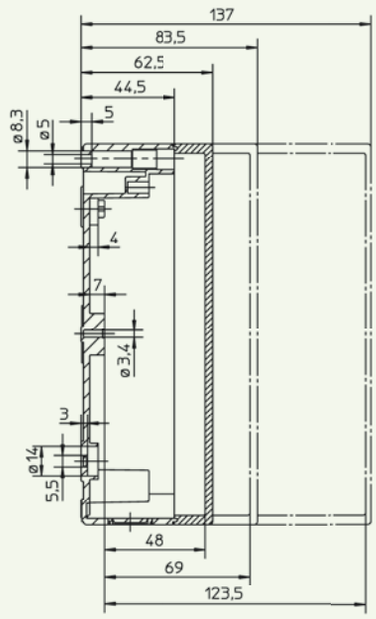
Side: B

Side: D

Side: C

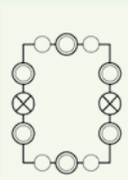


Side: A + C



dimensions in mm

Enclosures with embossing



Metric Types

○ = M 12

◎ = M 16/20

⊗ = M 25/32

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	4	8
16	3	4
20	2	4
25	2	3
32	1	2

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1811 flat

180 x 110 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1811-6f-m	63	105 414 01	12/2
TK PS 1811-8f-m	84	105 914 01	12/2
TK PS 1811-13f-m	137	104 414 01	8/2
TK PS 1811-6f-o	63	110 414 01	12/2
TK PS 1811-8f-o	84	110 914 01	12/2
TK PS 1811-13f-o	137	109 414 01	8/2

TK PS 1811 flat

180 x 110 mm

Empty enclosures, U_i=690V, box: Polystyrene, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PS 1811-6f-tm	63	106 014 01	12/2
TK PS 1811-8f-tm	84	106 514 01	12/2
TK PS 1811-13f-tm	137	107 014 01	8/2
TK PS 1811-6f-to	63	111 014 01	12/2
TK PS 1811-8f-to	84	111 514 01	12/2
TK PS 1811-13f-to	137	112 014 01	8/2

TK PC 1811 flat

180 x 110 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PC 1811-6f-m	63	127 414 01	12/2
TK PC 1811-8f-m	84	127 914 01	12/2
TK PC 1811-13f-m	137	128 414 01	12/2

TK PC 1811 flat

180 x 110 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

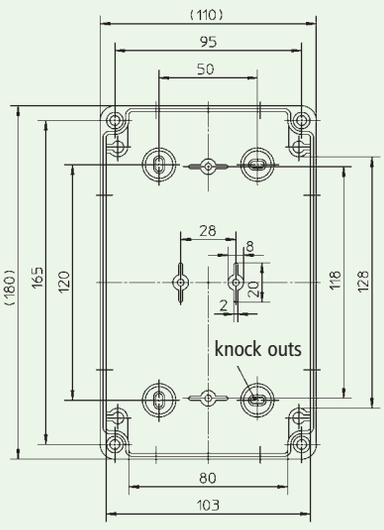
	height/mm		
TK PC 1811-6f-tm	63	137 014 01	8/2
TK PC 1811-8f-tm	84	137 514 01	8/2
TK PC 1811-13f-tm	137	138 014 01	8/2

106 006 01

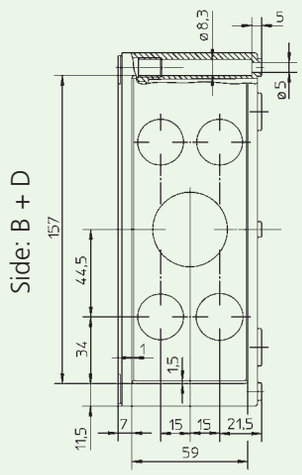
109 406 01

Example of application

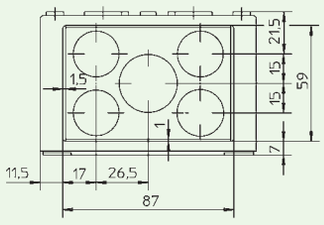
Side: A



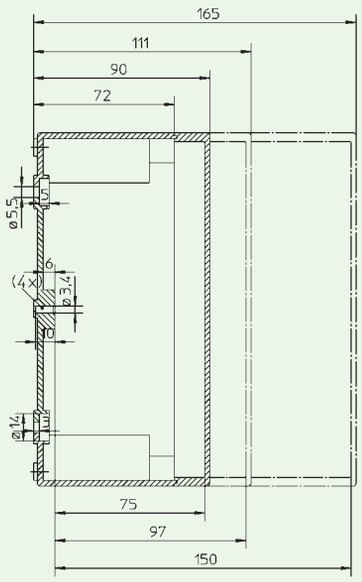
Side: B + D



Side: C

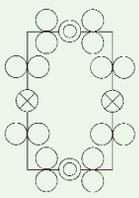


Side: A + C



dimensions in mm

Enclosures with embossing



Metric Types

○ = M 20

◎ = M 20/25

⊗ = M32/40

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	12	20
16	6	10
20	5	8
25	3	5
32	1	3
40	1	2
50	1	1

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1811
180 x 110 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1811-9-m	90	105 406 01	16/2
TK PS 1811-11-m	111	105 906 01	12/2
TK PS 1811-16-m	165	104 406 01	8/2
TK PS 1811-9-o	90	110 406 01	16/2
TK PS 1811-11-o	111	110 906 01	12/2
TK PS 1811-16-o	165	109 406 01	8/2

TK PS 1811
180 x 110 mm

Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PS 1811-9-tm	90	106 006 01	16/2
TK PS 1811-11-tm	111	106 506 01	12/2
TK PS 1811-16-tm	165	107 006 01	8/2
TK PS 1811-9-to	90	111 006 01	16/2
TK PS 1811-11-to	111	111 506 01	12/2
TK PS 1811-16-to	165	112 006 01	8/2

TK PC 1811
180 x 110 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PC 1811-9-m	90	127 406 01	16/2
TK PC 1811-11-m	111	127 906 01	12/2
TK PC 1811-16-m	165	128 406 01	8/2

TK PC 1811
180 x 110 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, cover: Polycarbonate, transparent

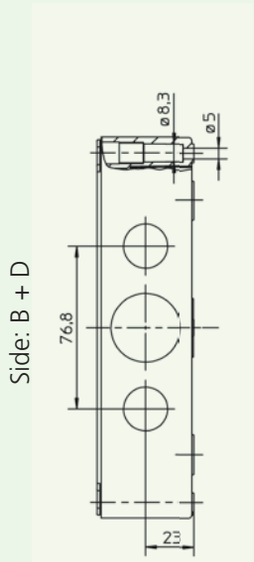
IP66 | IK08 | 690V AC | 1000V DC | halogen-free

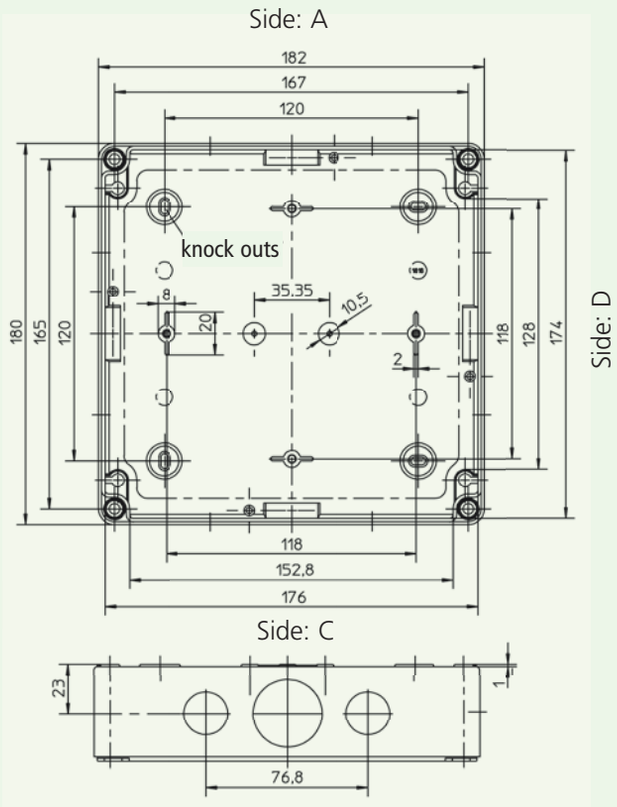
	height/mm		
TK PC 1811-9-tm	90	137 006 01	16/2
TK PC 1811-11-tm	111	137 506 01	12/2
TK PC 1811-16-tm	165	138 006 01	8/2

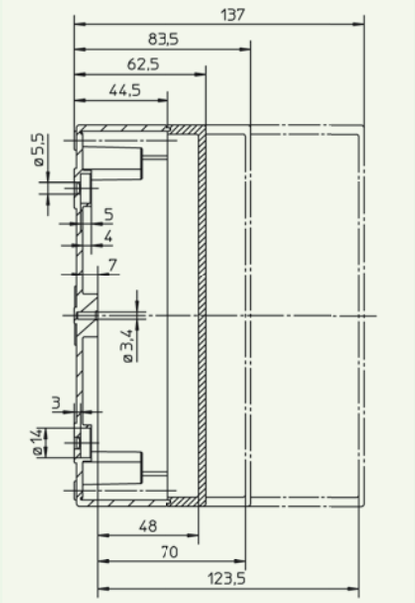
110 913 01

105 413 01

Example of application

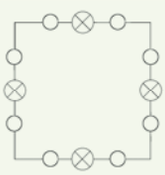






dimensions in mm

Enclosures with embossing



Metric Types

○ = M 16/20

⊗ = M 25/32

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/B/C/D
12	12
16	6
20	4
25	3
32	1

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1818 flat

182 x 180 mm

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1818-6f-m	63	105 413 01	8/2
TK PS 1818-8f-m	84	105 913 01	8/2
TK PS 1818-13f-m	137	104 413 01	4/1
TK PS 1818-6f-o	63	110 413 01	8/2
TK PS 1818-8f-o	84	110 913 01	8/2
TK PS 1818-13f-o	137	109 413 01	8/2

TK PS 1818 flat

182 x 180 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PS 1818-6f-tm	63	106 013 01	8/2
TK PS 1818-8f-tm	84	106 513 01	8/2
TK PS 1818-13f-tm	137	107 013 01	4/2
TK PS 1818-6f-to	63	111 013 01	8/2
TK PS 1818-8f-to	84	111 513 01	8/2
TK PS 1818-13f-to	137	112 013 01	8/2

TK PC 1818 flat

182 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PC 1818-6f-m	63	127 413 01	8/2
TK PC 1818-8-fm	84	127 913 01	8/2
TK PC 1818-13f-m	137	128 413 01	8/2

TK PC 1818 flat

182 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, grey, similar to RAL 7035,
box: glass fibre reinforced polycarbonate,
cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

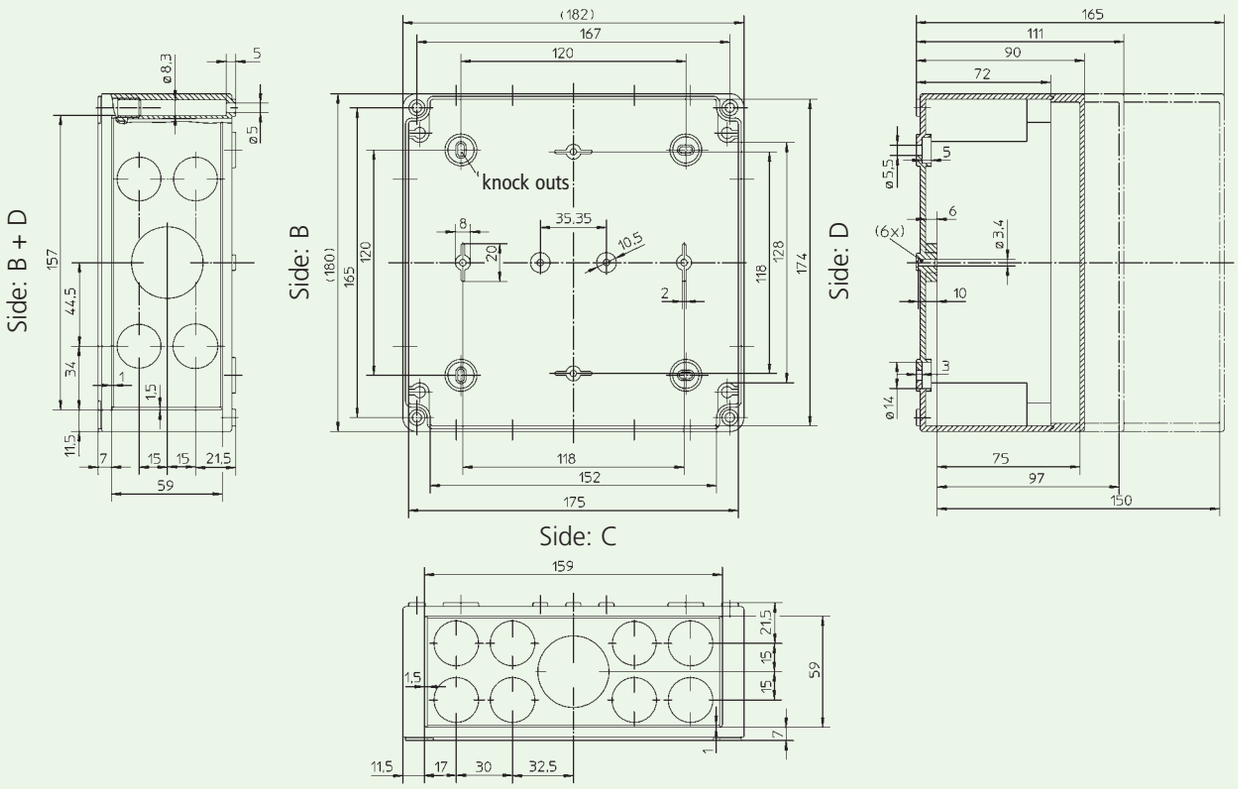
	height/mm		
TK PC 1818-6f-tm	63	137 013 01	8/2
TK PC 1818-8f-tm	84	137 513 01	8/2
TK PC 1818-13f-tm	137	138 013 01	8/2

110 907 01

105 407 01

Example of application

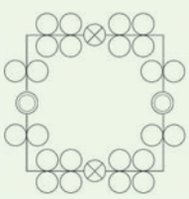
Side: A



Side: A + C

dimensions in mm

Enclosures with embossing



Metric Types

○ = M 20

⊗ = M 32/40

◎ = M 25/32

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	23	20
16	12	10
20	10	8
25	5	5
32	3	3
40	3	2
50	2	1

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 1818
182 x 180 mm

Description: Empty enclosures, U_i=690V, box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 1818-9-m	90	105 407 01	8/2
TK PS 1818-11-m	111	105 907 01	8/2
TK PS 1818-16-m	165	104 407 01	4/1
TK PS 1818-9-o	90	110 407 01	8/2
TK PS 1818-11-o	111	110 907 01	8/2
TK PS 1818-16-o	165	109 407 01	4/1

TK PS 1818
182 x 180 mm

Empty enclosures, U_i=690V, box: Polystyrene, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PS 1818-9-tm	90	106 007 01	8/2
TK PS 1818-11-tm	111	106 507 01	8/2
TK PS 1818-16-tm	165	107 007 01	4/1
TK PS 1818-9-to	90	111 007 01	8/2
TK PS 1818-11-to	111	111 507 01	8/2
TK PS 1818-16-to	165	112 007 01	4/1

TK PC 1818
182 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm		
TK PC 1818-9-m	90	127 407 01	8/2
TK PC 1818-11-m	111	127 907 01	8/2
TK PC 1818-16-m	165	128 407 01	4/1

TK PC 1818
182 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

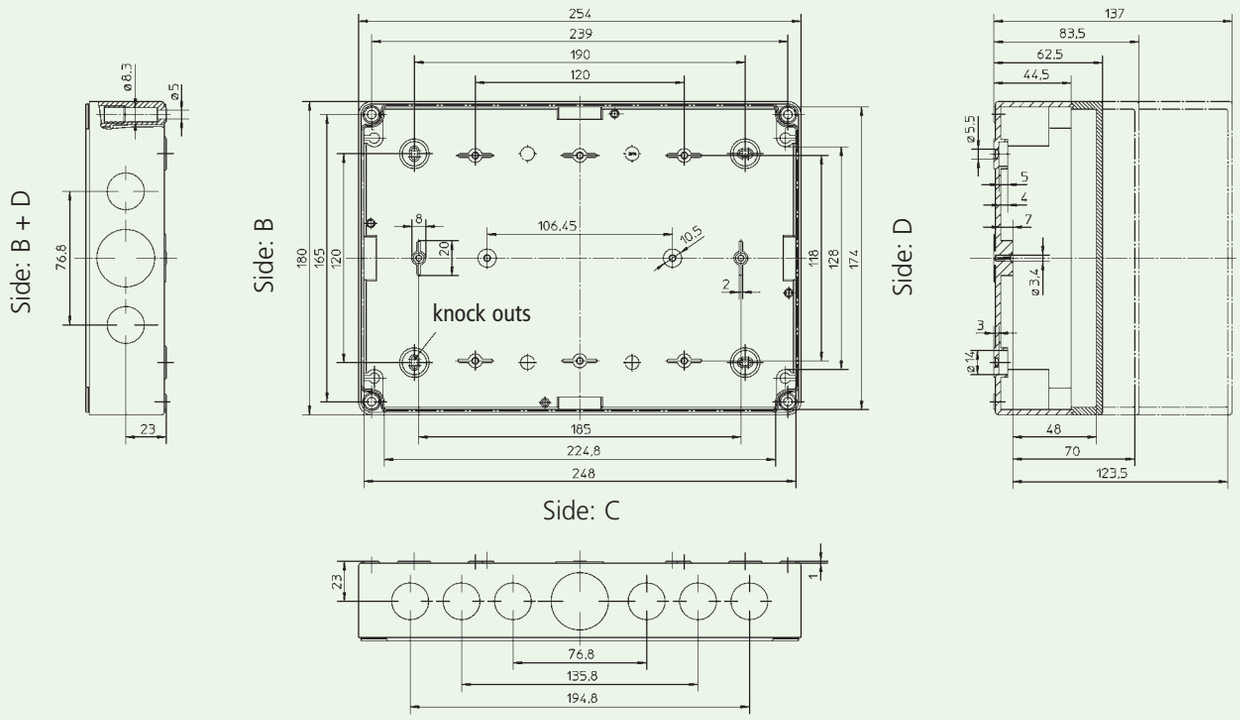
	height/mm		
TK PC 1818-9-tm	90	137 007 01	8/2
TK PC 1818-11-tm	111	137 507 01	8/2
TK PC 1818-16-tm	165	138 007 01	4/1

110 911 01

111 011 01

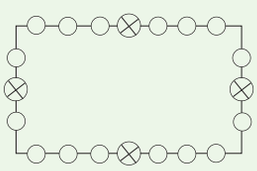
Example of application

Side: A



dimensions in mm

Enclosures with embossing



Metric Types

◯ = M 16/20

⊗ = M25/32

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	22	12
16	10	5
20	7	4
25	6	3
32	1	1
40	-	-
50	-	-

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Cover material
t= transparent
no description = grey

Height in cm

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 2518 flat
254 x 180 mm

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 IK07 690V AC 1000V DC halogen-free

	height/mm	Order No.	Packing Qty
TK PS 2518-6f-m	63	105 411 01	8/1
TK PS 2518-8f-m	84	105 911 01	8/1
TK PS 2518-13f-m	137	104 411 01	4/1
TK PS 2518-6f-o	63	110 411 01	8/1
TK PS 2518-8f-o	84	110 911 01	8/1
TK PS 2518-13f-o	137	109 411 01	4/1

TK PS 2518 flat
254 x 180 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 IK07 690V AC 1000V DC halogen-free

	height/mm		
TK PS 2518-6f-tm	63	106 011 01	8/1
TK PS 2518-8f-tm	84	106 511 01	8/1
TK PS 2518-13f-tm	137	107 011 01	4/1
TK PS 2518-6f-to	63	111 011 01	8/1
TK PS 2518-8f-to	84	111 511 01	8/1
TK PS 2518-13f-to	137	112 011 01	4/1

TK PC 2518 flat
254 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 IK08 690V AC 1000V DC halogen-free

	height/mm		
TK PC 2518-6f-m	63	127 411 01	8/1
TK PC 2518-8f-m	84	127 911 01	8/1
TK PC 2518-13f-m	137	128 411 01	4/1

TK PC 2518 flat
254 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 IK08 690V AC 1000V DC halogen-free

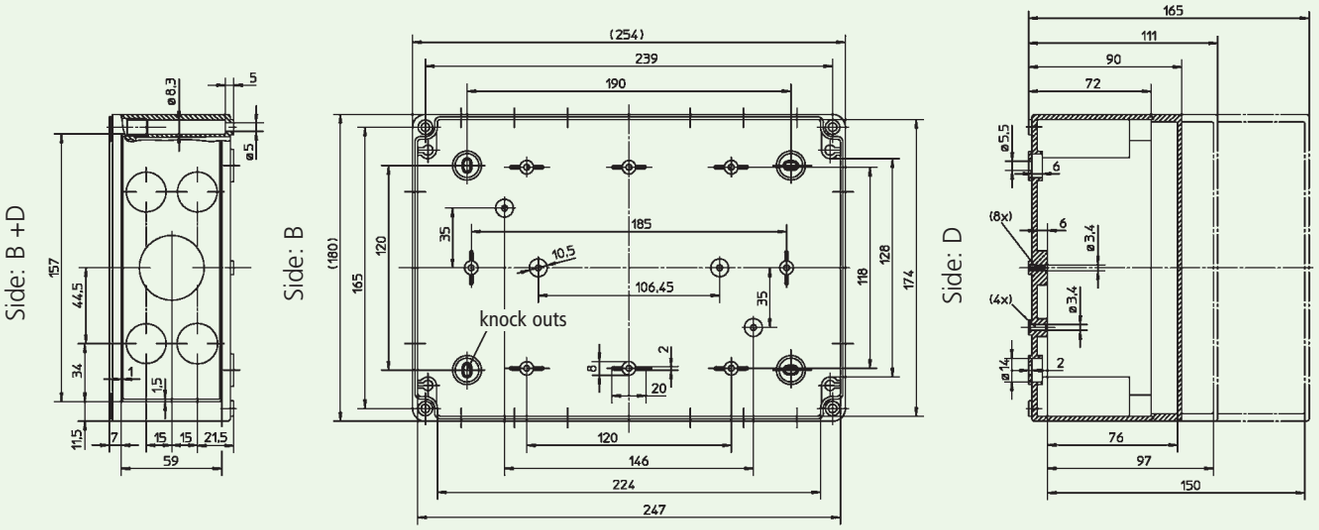
	height/mm		
TK PC 2518-6f-tm	63	137 011 01	8/1
TK PC 2518-8f-tm	84	137 511 01	8/1
TK PC 2518-13f-tm	137	138 011 01	4/1

106 508 01

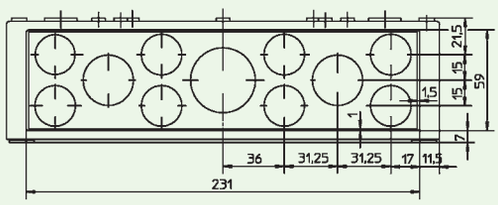
109 408 01

Example of application

Side: A



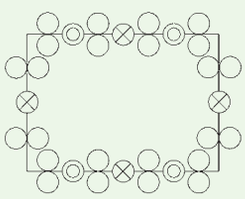
Side: C



Side: A + C

dimensions in mm

Enclosures with embossing



Metric Types

○ = M 20

◎ = M 25/32

⊗ = M 32/40

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	33	20
16	18	10
20	14	8
25	11	5
32	5	3
40	4	2
50	3	1

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 2518
254 x 180 mm

Description

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 2518-9-m	90	105 408 01	8/1
TK PS 2518-11-m	111	105 908 01	6/1
TK PS 2518-16-m	165	104 408 01	4/1
TK PS 2518-9-o	90	110 408 01	8/1
TK PS 2518-11-o	111	110 908 01	6/1
TK PS 2518-16-o	165	109 408 01	4/1

TK PS 2518
254 x 180 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 2518-9-tm	90	106 008 01	8/1
TK PS 2518-11-tm	111	106 508 01	6/1
TK PS 2518-16-tm	165	107 008 01	4/1
TK PS 2518-9-to	90	111 008 01	8/1
TK PS 2518-11-to	111	111 508 01	6/1
TK PS 2518-16-to	165	112 008 01	4/1

TK PC 2518
254 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 2518-9-m	90	127 408 01	8/1
TK PC 2518-11-m	111	127 908 01	6/1
TK PC 2518-16-m	165	128 408 01	4/1

TK PC 2518
254 x 180 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

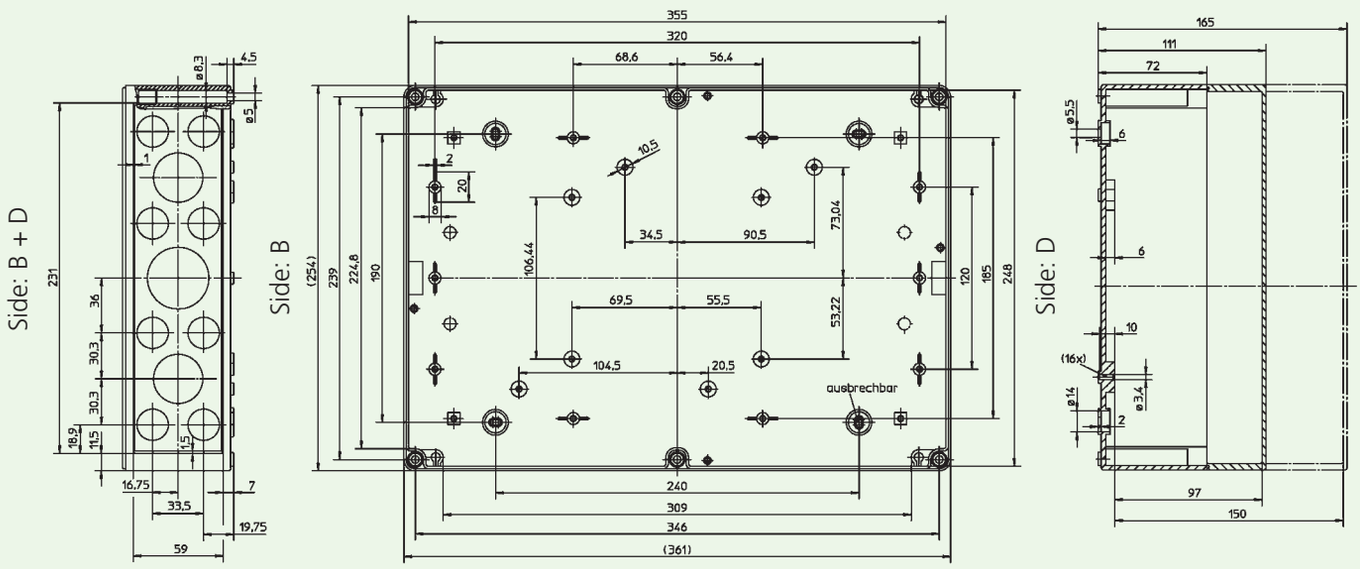
	height/mm	Order No.	Packing Qty
TK PC 2518-9-tm	90	137 008 01	8/1
TK PC 2518-11-tm	111	137 508 01	6/1
TK PC 2518-16-tm	165	138 008 01	4/1

106 012 01

110 912 01

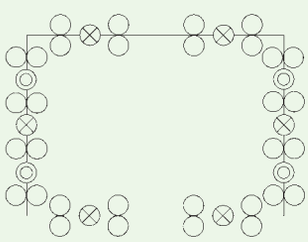
Example of application

Side: A



dimensions in mm

Enclosures with embossing



Metric Types

○ = M 20

◎ = M 25/32

⊗ = M 32/40

Drawings under
www.box-finder.com

Enclosures without embossing

Maximum possible through holes per side

M	A/C	B/D
12	42	33
16	24	18
20	16	14
25	14	11
32	6	5
40	4	4
50	4	3

TK-Designation scheme

Material:
PS= Polystyrene
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

PS 1309-8-tm

Length x width in cm

m= metric
o= without pre-embossing
v= with moulded cable gland

TK PS 3625
360 x 254 mm

Description

Empty enclosures, U_i=690V,
box and cover: Polystyrene, grey, similar to RAL 7035

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 3625-11-m	111	105 412 01	3/1
TK PS 3625-16-m	165	105 912 01	2/1
TK PS 3625-11-o	111	110 412 01	3/1
TK PS 3625-16-o	165	110 912 01	2/1

TK PS 3625
360 x 254 mm

Empty enclosures, U_i=690V,
box: Polystyrene, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PS 3625-11-tm	111	106 012 01	3/1
TK PS 3625-16-tm	165	106 512 01	2/1
TK PS 3625-11-to	111	111 012 01	3/1
TK PS 3625-16-to	165	111 512 01	2/1

TK PC 3625
360 x 254 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 3625-11-m	111	127 412 01	3/1
TK PC 3625-16-m	165	127 912 01	2/1

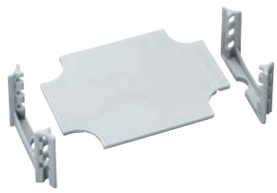
TK PC 3625
360 x 254 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V,
box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035,
cover: Polycarbonate, transparent

IP66 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
TK PC 3625-11-tm	111	137 012 01	3/1
TK PC 3625-16-tm	165	137 512 01	2/1

Mounting plates



Description			Order No.	Packing Qty
Mounting plate made from insulating material with mounting plate bracket for assembly without tools, Set = 5 pieces				
	Dimensions/mm	**for type**		
TK MPI-55	46 x 44 x 2.0	TK 55	195 055 01	200/1
TK MPI-75	59 x 44 x 2	TK 75	195 075 01	200/1

Mounting plates

Mounting plate made from insulating material incl. fixing screws and spacers				
	Dimensions/mm	**for type**		
TK MPI-77	45 x 45 x 2.5	TK 77	195 001 01	200/1
TK MPI-97	74 x 45 x 2.5	TK 97	195 002 01	250/1
TK MPI-99	74 x 74 x 2.5	TK 99	195 003 01	175/1
TK MPI-1111	90 x 90 x 2.5	TK 1111	195 004 01	150/1
TK MPI-1309	110 x 74 x 2.5	TK 1309	195 009 01	150/1
TK MPI-1313	110 x 110 x 2.5	TK 1313	195 005 01	125/1
TK MPI-1809	160 x 74 x 2.5	TK 1809	195 010 01	150/1

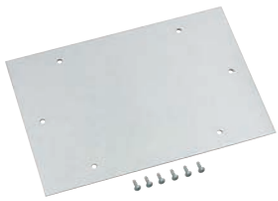
Mounting plates

Mounting plate made from insulating material, incl. fixing screws, Set = 5 pieces				
	Dimensions/mm	**for type**		
TK MPI-1811	150 x 90 x 2.5	TK 1811	195 006 01	250/1
TK MPI-1818	150 x 150 x 2.5	TK 1818	195 007 01	125/1
TK MPI-2518	220 x 150 x 2.5	TK 2518	195 008 01	100/1
TK MPI-3625	331 x 220 x 2.5	TK 3625	195 012 01	50/1

Mounting plates

Mounting plate made from stainless steel, incl. fixing screws and spacers				
	Dimensions/mm	**for type**		
TK MPS-77	45 x 45 x 2.0	TK 77	197 001 01	200/1
TK MPS-97	74 x 45 x 2.0	TK 97	197 002 01	250/1
TK MPS-99	74 x 74 x 2.0	TK 99	197 003 01	175/1
TK MPS-1111	90 x 90 x 2.0	TK 1111	197 004 01	150/1
TK MPS-1309	110 x 74 x 2.0	TK 1309	197 009 01	150/1
TK MPS-1313	110 x 110 x 2.0	TK 1313	197 005 01	125/1
TK MPS-1809	160 x 74 x 2.0	TK 1809	197 010 01	150/1

Mounting plates



Description			Order No.	Packing Qty
Mounting plate made from stainless steel, incl. fixing screws				
	Dimensions/mm	**for type**		
TK MPS-1811	150 x 90 x 2.0	TK 1811	197 006 01	250/1
TK MPS-1818	150 x 150 x 2.0	TK 1818	197 007 01	125/1
TK MPS-2518	220 x 150 x 2.0	TK 2518	197 008 01	100/1
TK MPS-3625	331 x 220 x 2.0	TK 3625	197 012 01	50/1

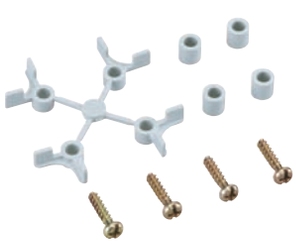
Mounting rail NS 35

	Mounting rail acc. DIN EN 60715, 35 x 7,5, width 35mm, incl. fixing screws			
	length/mm	**for type**		
NS 35-81	81.0	TK 1111/1309/1313/1809/1811	198 081 01	1/1
NS 35-106	106.0	TK 1309/1313	198 106 01	1/1
NS 35-144	144.0	TK 1809/1811/1818/2518	198 144 01	1/1
NS 35-216	216.0	TK 2518/3625	198 216 01	1/1
NS 35-336	336.0	TK 3625	198 336 01	1/1

Mounting rail TS 15

	Mounting rail acc. DIN EN 60715, 15 x 5, width 15 mm, incl. fixing screws			
	length/mm	**for type**		
TS 15-49,5	49.5	TK 77/97	197 049 01	1/1
TS 15-80	80.0	TK 97/99/1111/1309/1313/1809/1811	197 080 01	1/1
TS 15-92	92.0	TK 1111/1309/1313/1811	197 092 01	1/1
TS 15-111	111.0	TK 1309/1313	197 111 01	1/1
TS 15-154	154.0	TK 1809/1811/1818/2518	197 154 01	1/1

Spacer kit TK DST



	Spacer kit for creating a space between enclosure bottom and conductor – and assembly plate 4 pieces spacing 6 mm, 4 pieces spacing 8 mm, incl. fixing screws			
TK DST			194 100 01	100/1

Mounting plate for distribution board

Description	Order No.	Packing Qty
Mounting plate for distribution bard made of plastic, suitable for the assembly without tools of MP and LP in TK 55 and TK 75		
TK MLH-55/75 Set = 25 pairs	194 110 01	500/50

Mounting material

Mounting material for enclosure made of plastic, for clipping on the standard mounting material of enclosure from TK 77		
HBA Set = 4 pieces	190 001 01	200/1

Extrenal hinge set

External hinge set for upgrading the housing cover to hinged door, incl. 2 hinges, fixing screws, cover plugs and drilling template		
ASS-kl external hinge set small	190 002 01	200/1
ASS-gro External hinge set large	190 005 01	200/1

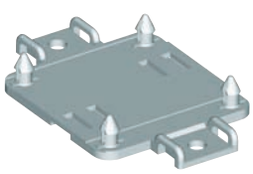
Padlock kit

Description	Order No.	Packing Qty
Padlock kit for upgrading the housing cover to lockable hinged door, incl. padlock, 2 hinges, fixing screws, cover plugs and drilling template		
VSG	190 100 01	20/1

External fixing lugs kit

External fixing lugs made of plastic, for all TK-, RK-housings, except for TK 55 and TK 75		
TK ABL Set = 4 pieces	194 001 01	100/1

External fixing plate



Made of plastic, for TK 55 and TK 75		
TK ABP-55/75 Set = 5 pieces	194 002 01	10/1

Partition wall

Made of plastic, suitable for the separation of two electric circuits		
TK TW-n for TK 1309-6 and TK 1809-6	196 009 01	100/1
TK TW-h for TK 1309-8 and TK 1809-8	196 909 01	100/1

Handle

Description		Order No.	Packing Qty
Handle made from plastic, for mobile use of housing, screw spacing 120mm			
TG 2	with self-cutting screws	191 805 01	40/1
TG 1	with screws and nuts made from plastic	191 800 01	30/1

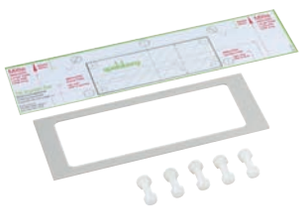
Combi set

IP66

Combi set for combining enclosures			
	f. wall thicknesses/mm		
KS M20	2.0 x 3.0	192 020 01	100/1
KS M25	2.0 x 3.0	192 025 01	50/1
KS M32	2.0 x 3.5	192 032 01	50/1

Combi set

IP66



Combi set for combining housing from TK 1811 (except for flat design), complete with screws and nuts made from plastic, intermediate sealing and drilling template			
KS gro		192 018 01	100/1

screw

Description	Order No.	Packing Qty
Self-cutting screw, for fixing mounting parts in TK 55 and TK 75		
DS 3 x 8 mm	190 200 01	30/1

Lid screw

Lid screw prevents opening by unauthorised persons, can be sealed additionally, special screwdriver required, Set=12 pieces, from TK 77

	for cover	Color		
TK DS-ku/g/T40	flat	grey	190 014 01	1/1
TK DS-ku/sw/T40	flat	black	190 015 01	1/1
TK DS-lg/g/T40	high	grey	190 016 01	1/1
TK DS-lg/sw/T40	high	black	190 017 01	1/1

Special screwdriver

Special screwdriver for actuating the TK lid screw

TK SDR T40	195 018 01	1/1

Lid screw

Lid screw as additional screw, from TK 77

	for cover	Color		
TK DS-ku/g	flat	grey	190 010 01	1/1
TK DS-ku/sw	flat	black	190 012 01	1/1
TK DS-lg/g	high	grey	190 011 01	1/1
TK DS-lg/sw	high	black	190 013 01	1/1

hole cutter

hole cutter

LFR Through opening: M16-32 drill hole: 16,5-32.5 mm	195 995 01	1/1

TG Empty enclosures

IP67 | IK07 | 690V AC | 1000V DC | halogen-free

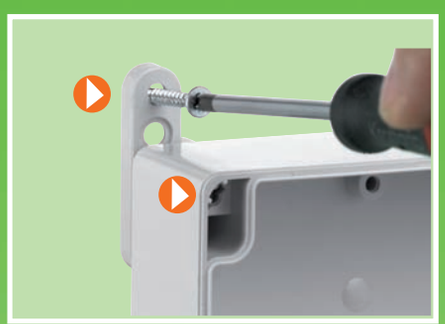
IP67 | IK08 | 690V AC | 1000V DC | UL | halogen-free

Industrial quality

TG-Empty enclosures

- 9 basic enclosures of various heights
- High-quality design with a stylish high-gloss appearance
- Colour grey, similar to RAL 7035
- Cover grey or transparent
- Plastic, optionally ABS (TG ABS) or polycarbonate (TG PC)
- With time-saving fast closure
- Recess in the cover facilitates the placement of design foils or membrane keyboards
- Smooth side walls for added flexibilit
- Modular tools

Integrated cover retainer



Individual choice of attachments

Fast-acting closure

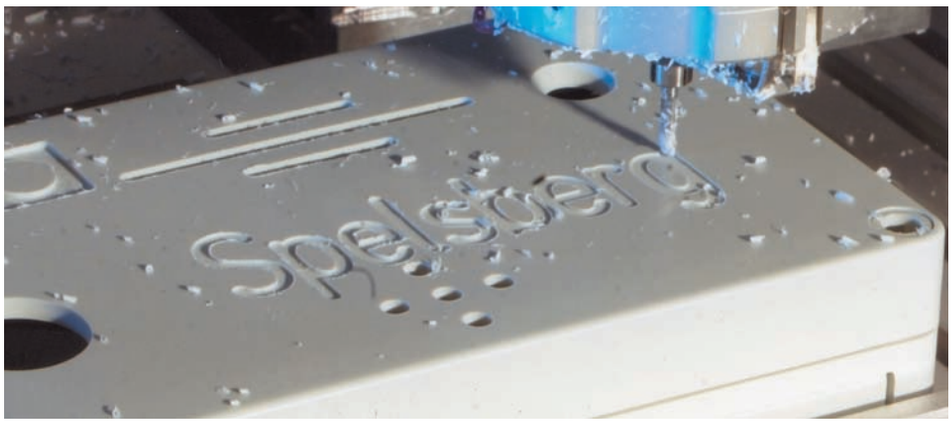
Standard rail

Mounting plate

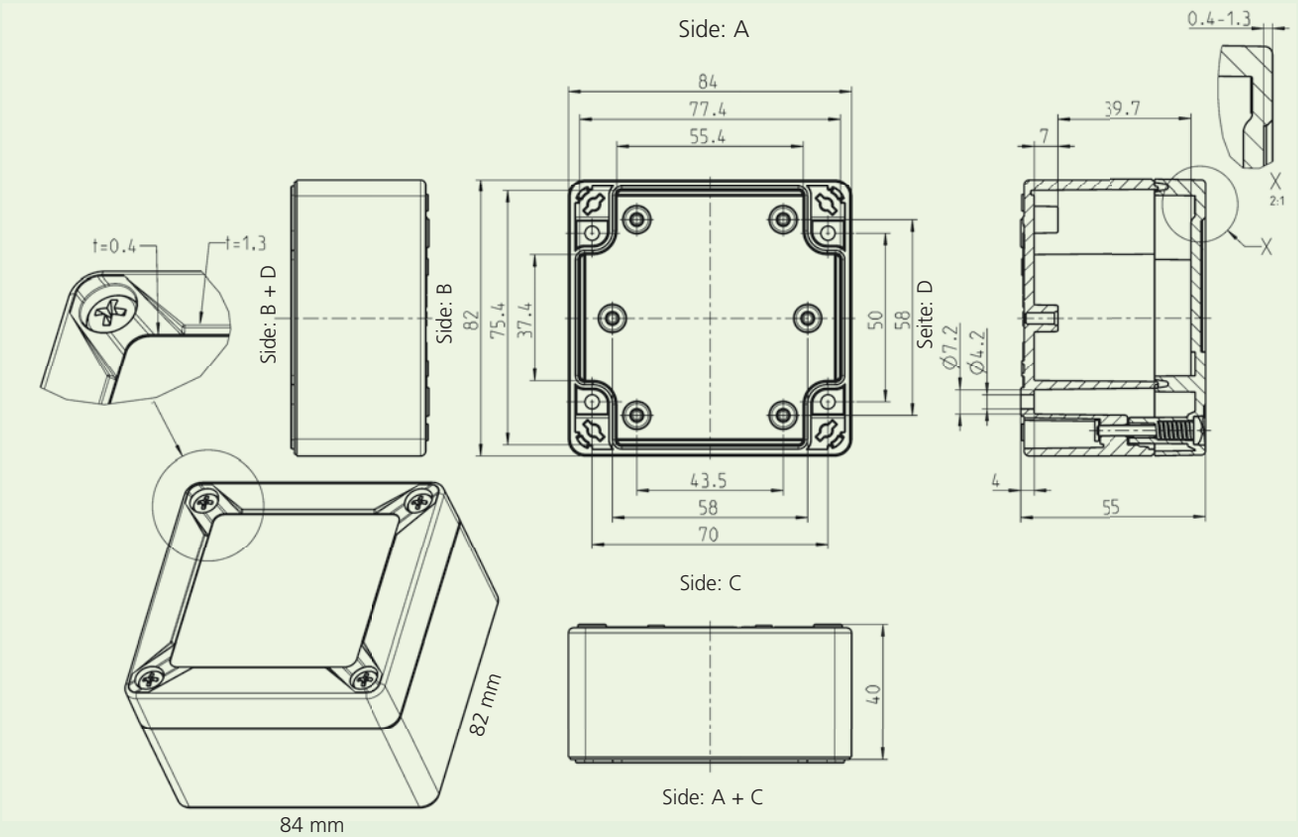
Internal hinges

Functional design

- **Integrated cover retainer**
- **Attachment notches in the usual positions**
- **Extensive range of accessories**



On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	3	2
16	2	1
20	1	1
25	-	-
32	-	-
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

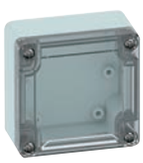
Length x width in cm

o= without pre-embossing

TG ABS 88
84 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 88-6-o	**height/mm** 55	100 403 01	1/1

TG ABS 88
84 x 82 mm

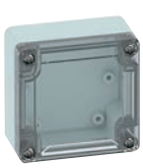


Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 88-6-to	**height/mm** 55	101 003 01	1/1

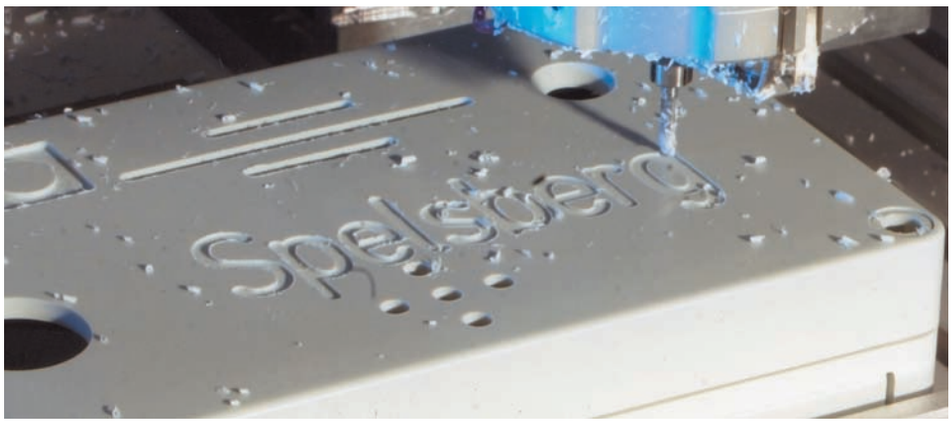
TG PC 88
84 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 88-6-o	**height/mm** 55	200 403 01	1/1

TG PC 88
84 x 82 mm



Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 88-6-to	**height/mm** 55	201 003 01	1/1



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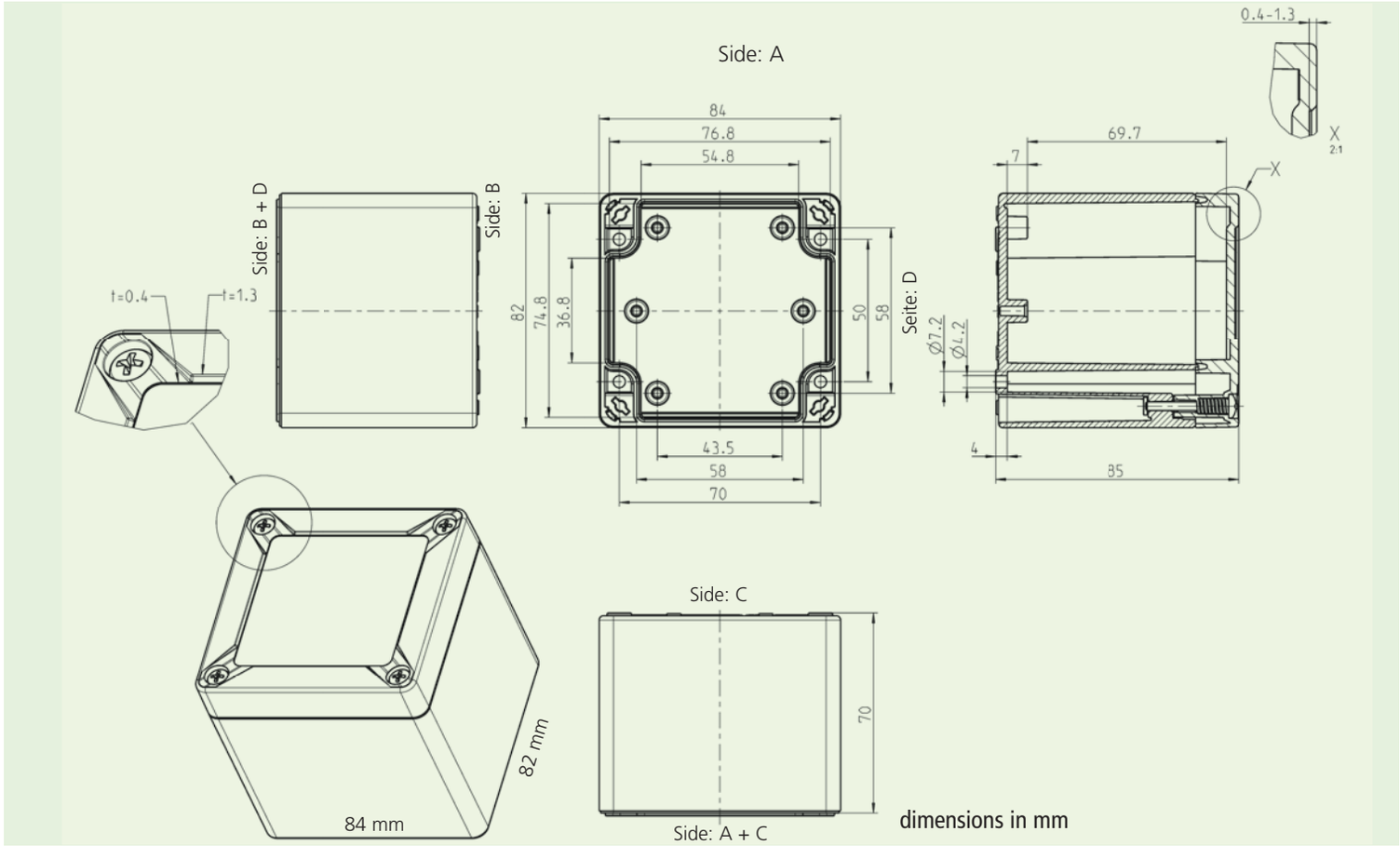


dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	6	4
16	4	2
20	2	2
25	1	1
32	1	-
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

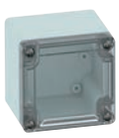
Length x width in cm

o= without pre-embossing

TG ABS 88
84 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 88-9-o	**height/mm** 85	100 903 01	1/1

TG ABS 88
84 x 82 mm



Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 88-9-to	**height/mm** 85	101 503 01	1/1

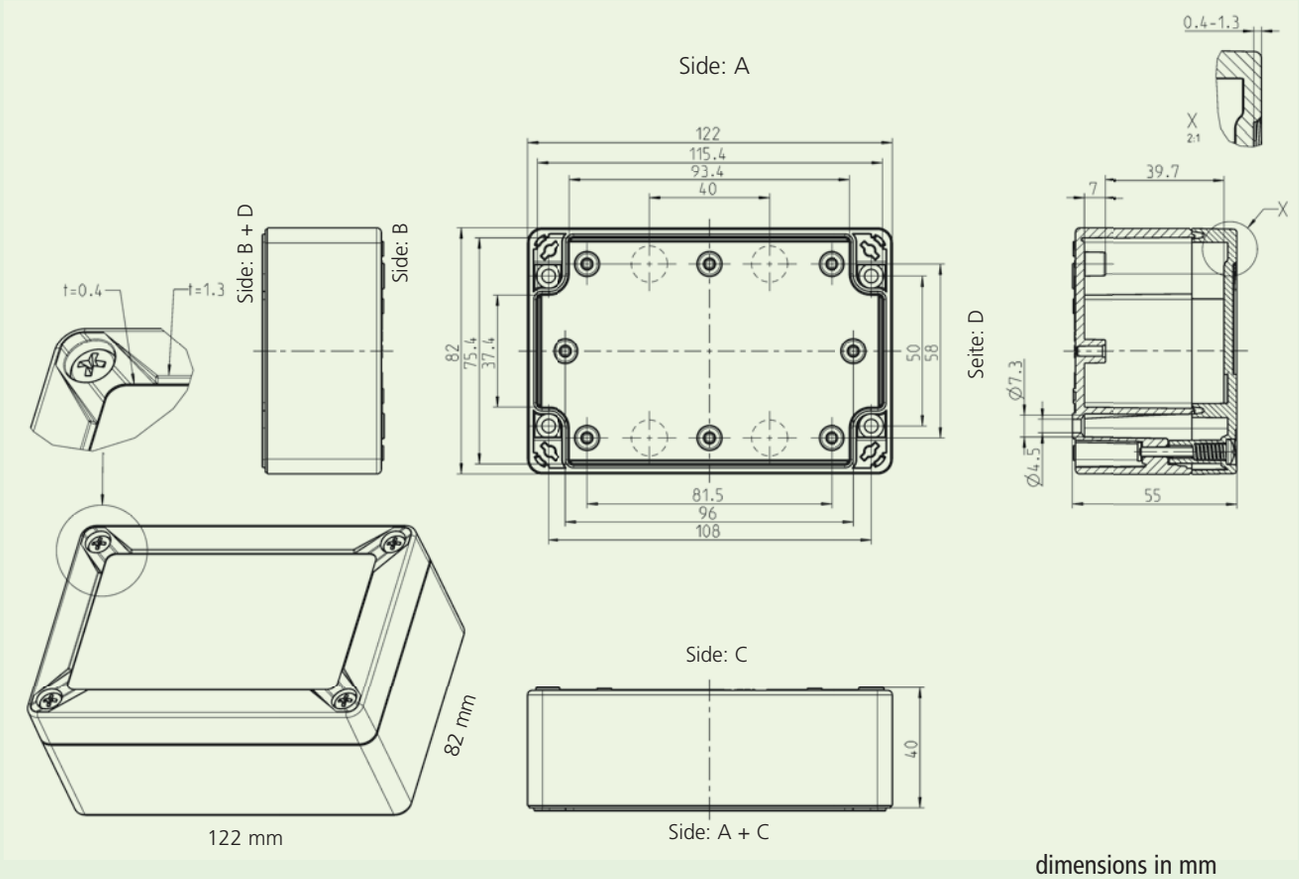
TG PC 88
84 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 88-9-o	**height/mm** 85	200 903 01	1/1

TG PC 88
84 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 88-9-to	**height/mm** 85	201 503 01	1/1

On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	5	2
16	3	1
20	2	-
25	2	-
32	-	-
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 1208
122 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1208-6-o	**height/mm** 55	100 404 01	1/1

TG ABS 1208
122 x 82 mm

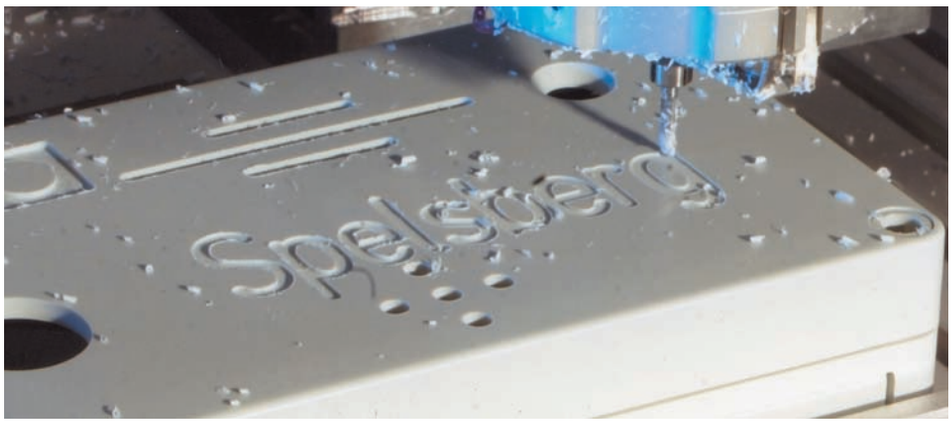
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1208-6-to	**height/mm** 55	101 004 01	1/1

TG PC 1208
122 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1208-6-o	**height/mm** 55	200 404 01	1/1

TG PC 1208
122 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1208-6-to	**height/mm** 55	201 004 01	1/1



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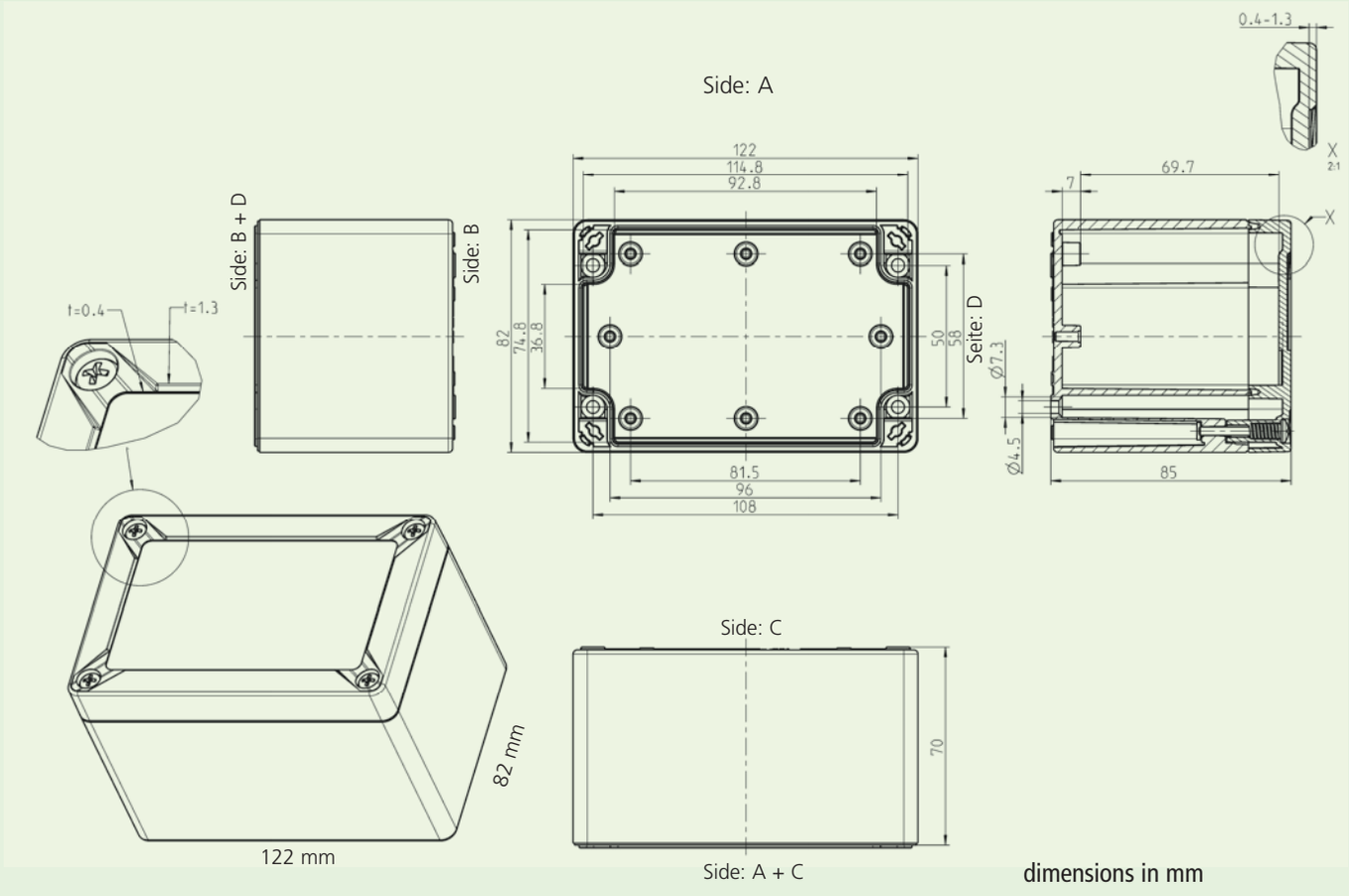
Customized solution!



Maximum possible metric through holes per side

M	A/C	B/D
12	12	4
16	6	2
20	6	1
25	3	1
32	2	-
40	1	-
50	-	-

Drawings under
www.box-finder.com

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 1208
122 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1208-9-o	**height/mm** 90	100 904 01	1/1

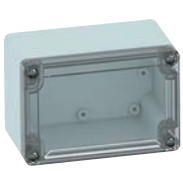
TG ABS 1208
122 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1208-9-to	**height/mm** 90	101 504 01	1/1

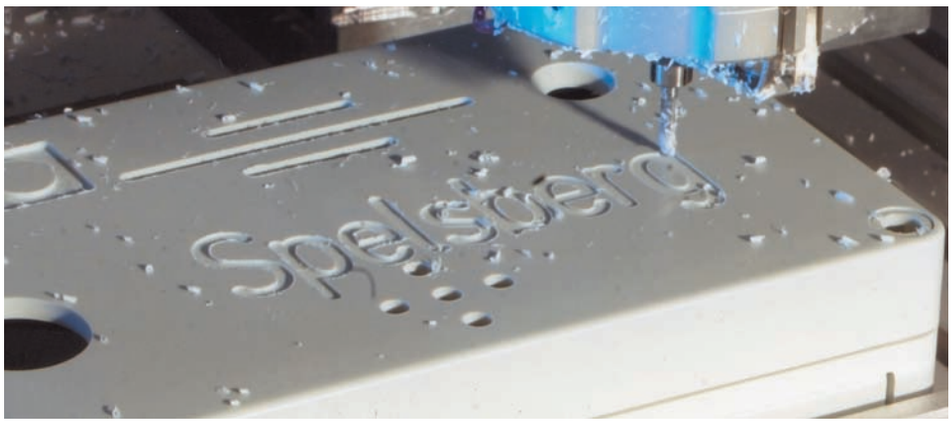
TG PC 1208
122 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1208-9-o	**height/mm** 90	200 904 01	1/1

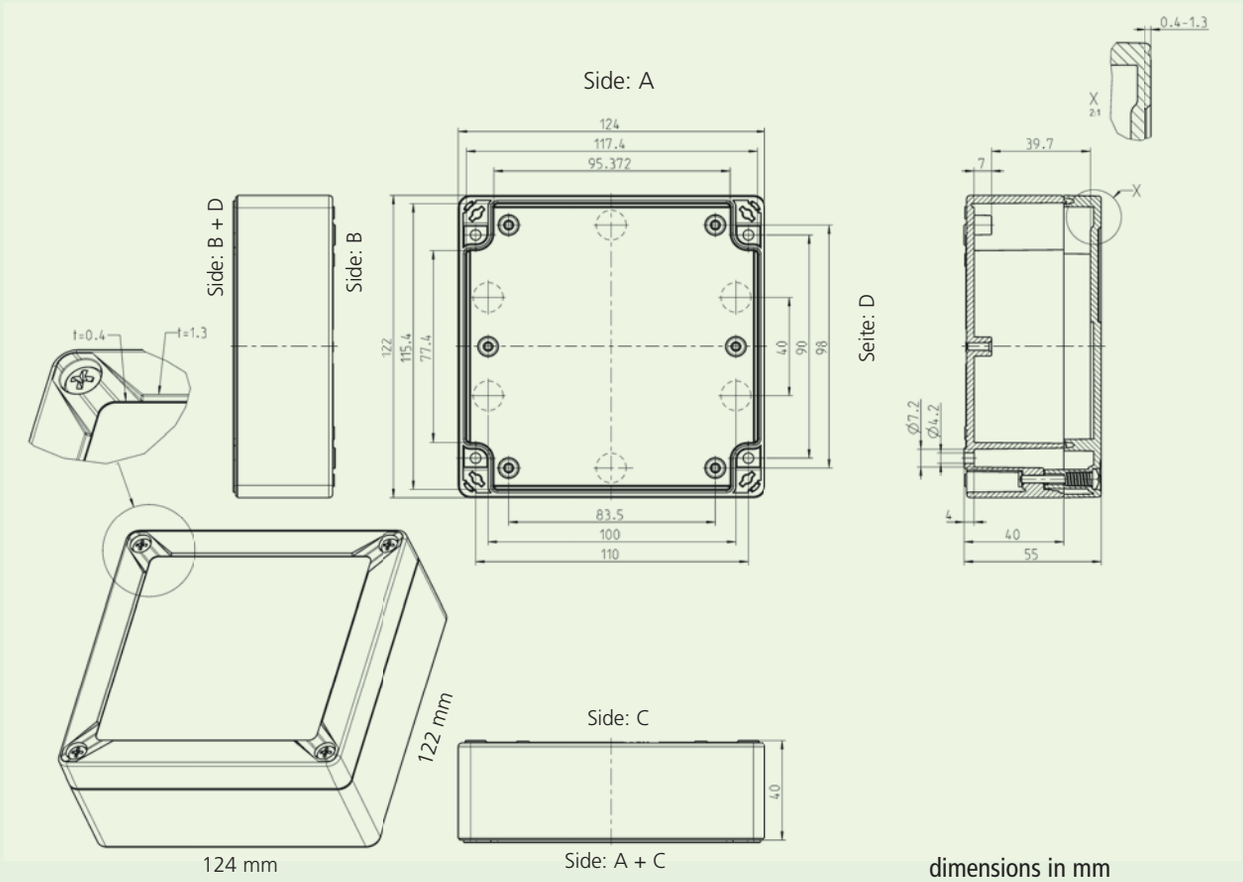
TG PC 1208
122 x 82 mm



Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1208-9-to	**height/mm** 90	201 504 01	1/1



On reqest:
Customized solution!



Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	6	5
16	3	3
20	3	2
25	2	2
32	-	-
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

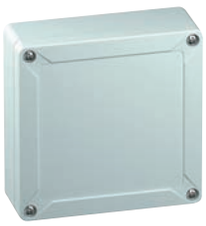
Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

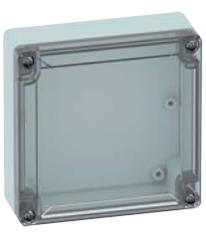
o= without pre-embossing

TG ABS 1212
124 x 122 mm



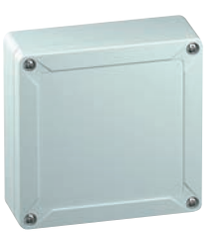
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1212-6-o	**height/mm** 55	100 405 01	1/1

TG ABS 1212
124 x 122 mm



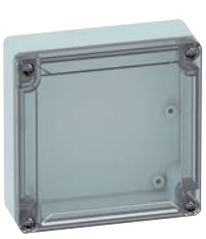
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1212-6-to	**height/mm** 55	101 005 01	1/1

TG PC 1212
124 x 122 mm

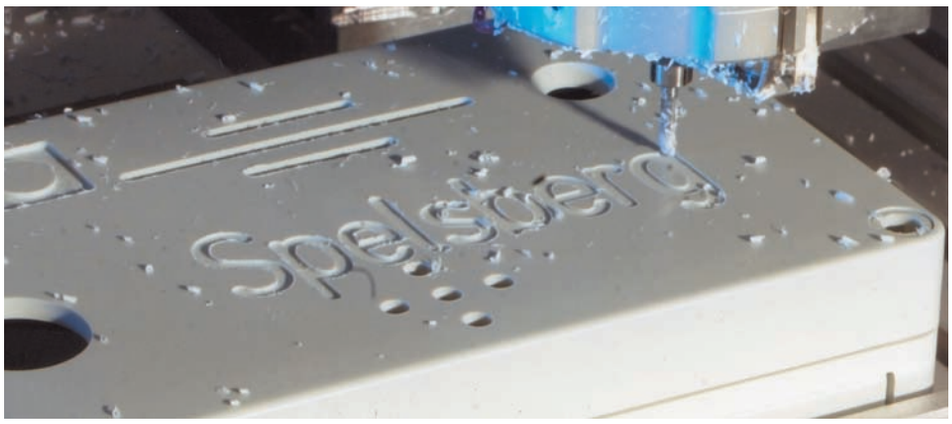


Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1212-6-o	**height/mm** 55	200 405 01	36/2

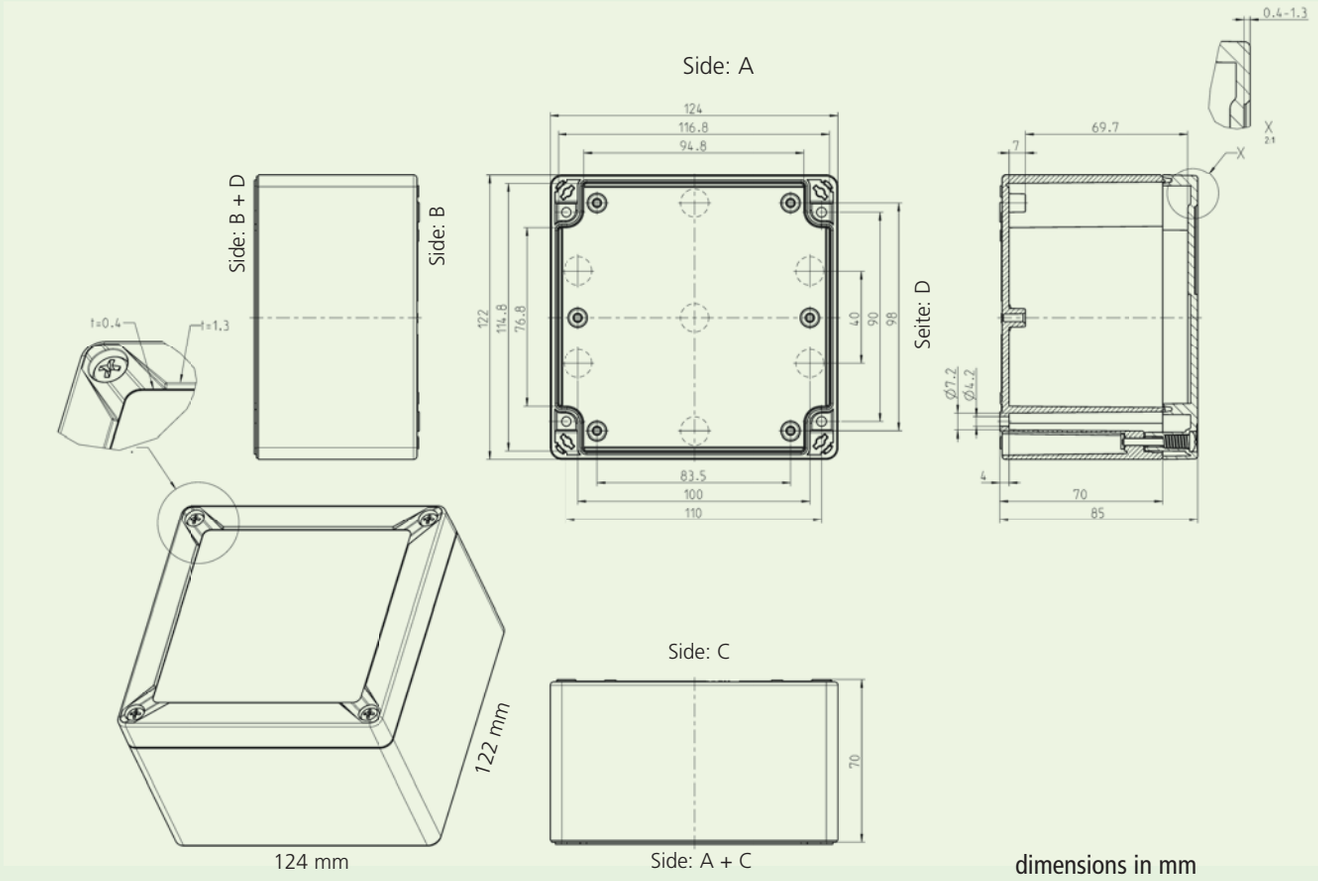
TG PC 1212
124 x 122 mm



Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1212-6-to	**height/mm** 55	201 005 01	36/2



On reqest:
Customized solution!



Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	12	9
16	6	6
20	6	4
25	3	2
32	2	1
40	1	1
50	1	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

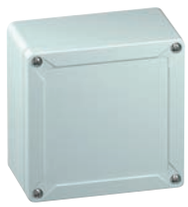
Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

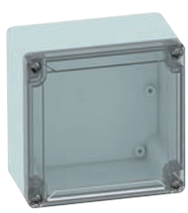
o= without pre-embossing

TG ABS 1212
124 x 122 mm



Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1212-9-o	**height/mm** 90	100 905 01	1/1

TG ABS 1212
124 x 122 mm

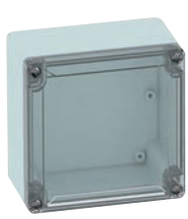


Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1212-9-to	**height/mm** 90	101 505 01	1/1

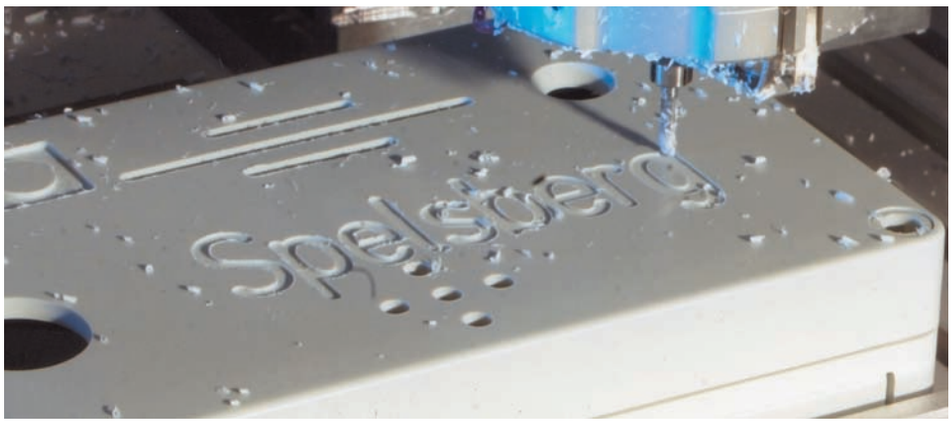
TG PC 1212
124 x 122 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1212-9-o	**height/mm** 90	200 905 01	24/2

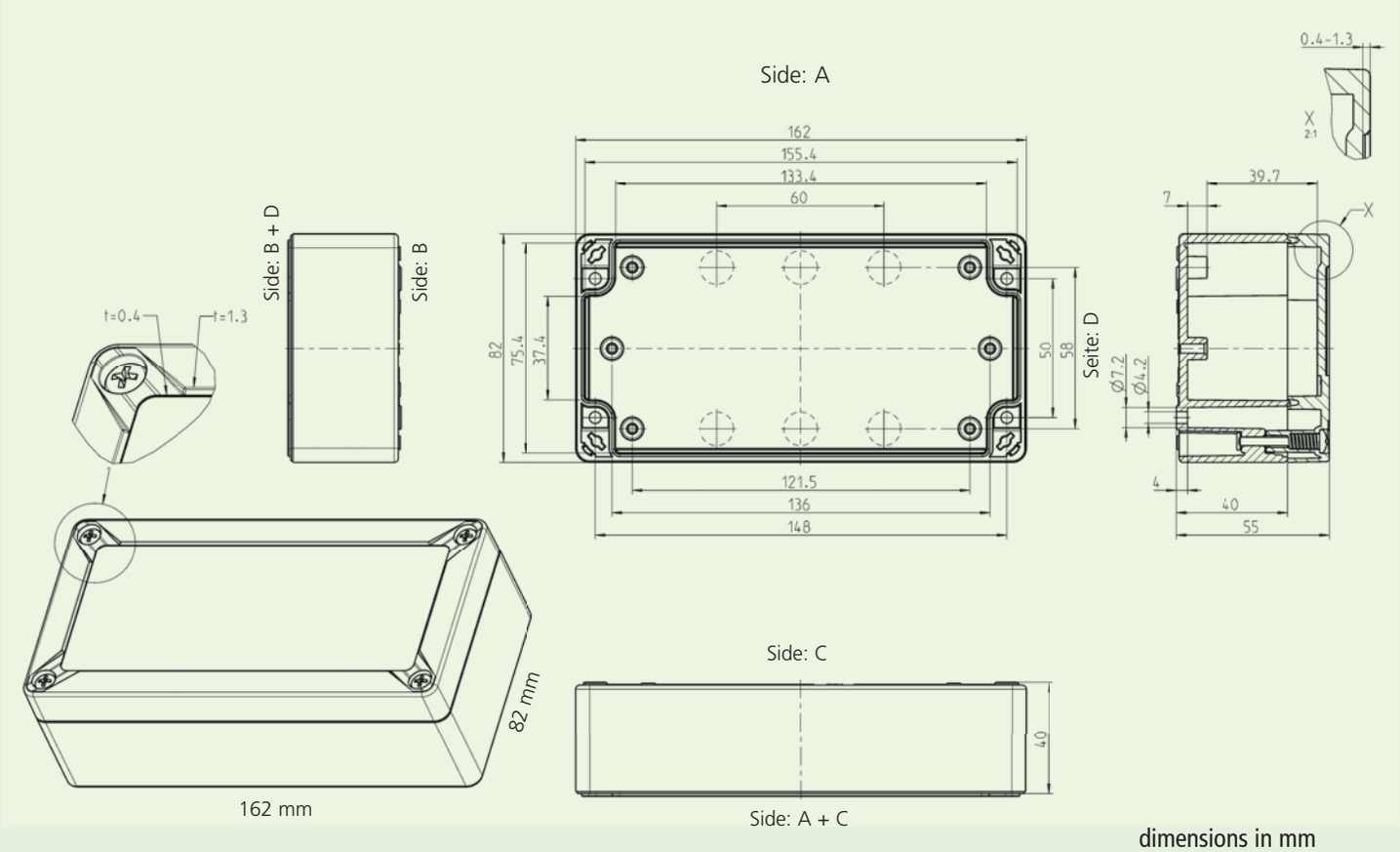
TG PC 1212
124 x 122 mm



Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1212-9-to	**height/mm** 90	201 505 01	24/2



On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	9	2
16	5	1
20	4	1
25	-	-
32	-	-
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 1608
162 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1608-6-o	**height/mm** 55	100 406 01	1/1

TG ABS 1608
162 x 82 mm

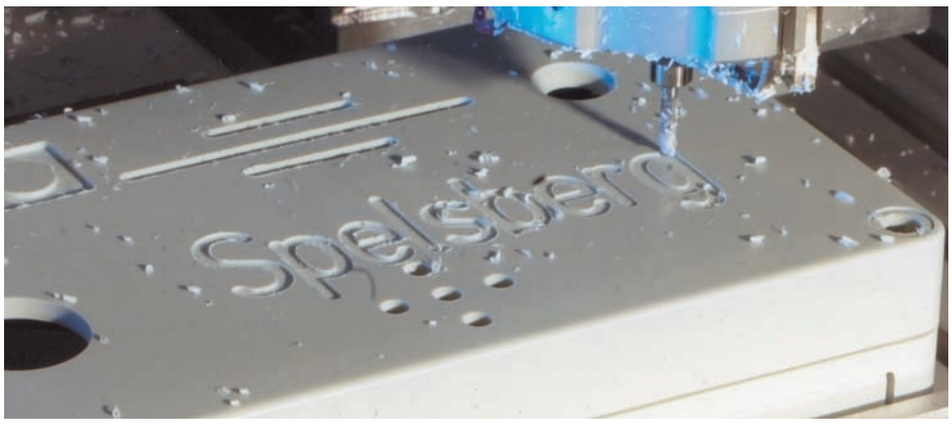
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1608-6-to	**height/mm** 55	101 006 01	1/1

TG PC 1608
162 x 82 mm

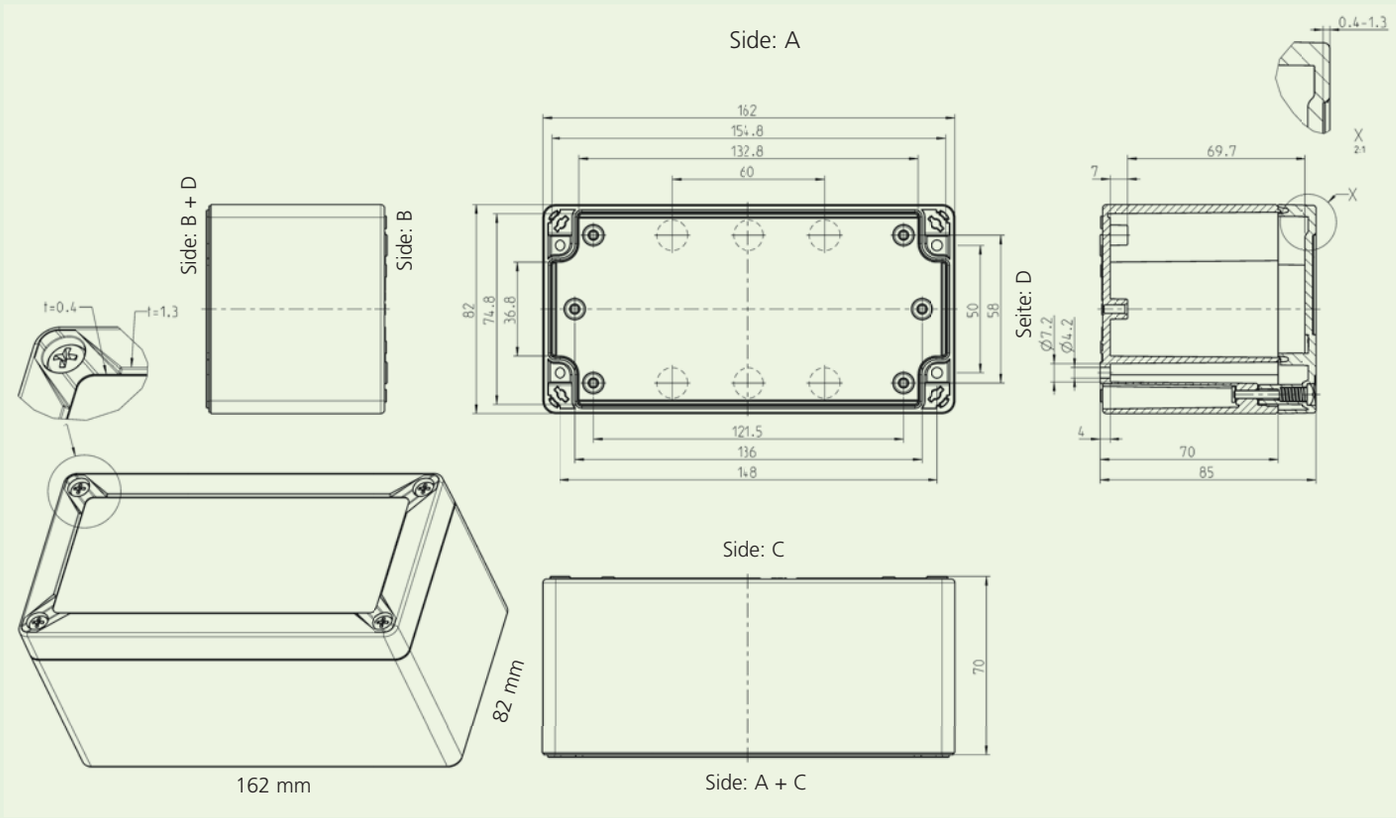
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1608-6-o	**height/mm** 55	200 406 01	1/1

TG PC 1608
162 x 82 mm

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1608-6-to	**height/mm** 55	201 006 01	1/1



On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	18	4
16	10	2
20	8	2
25	4	1
32	3	-
40	2	-
50	2	-

TG Designation Scheme

Material:
ABS
PC= Polycarbonate

Height in cm

Cover material
t= transparent
no description = grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 1608
162 x 82 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1608-9-o	**height/mm** 90	100 906 01	1/1

TG ABS 1608
162 x 82 mm

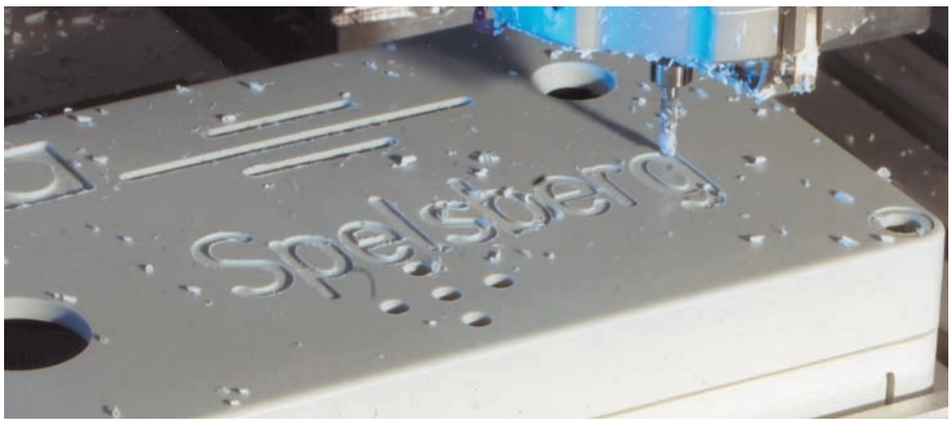
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1608-9-to	**height/mm** 90	101 506 01	1/1

TG PC 1608
162 x 82 mm

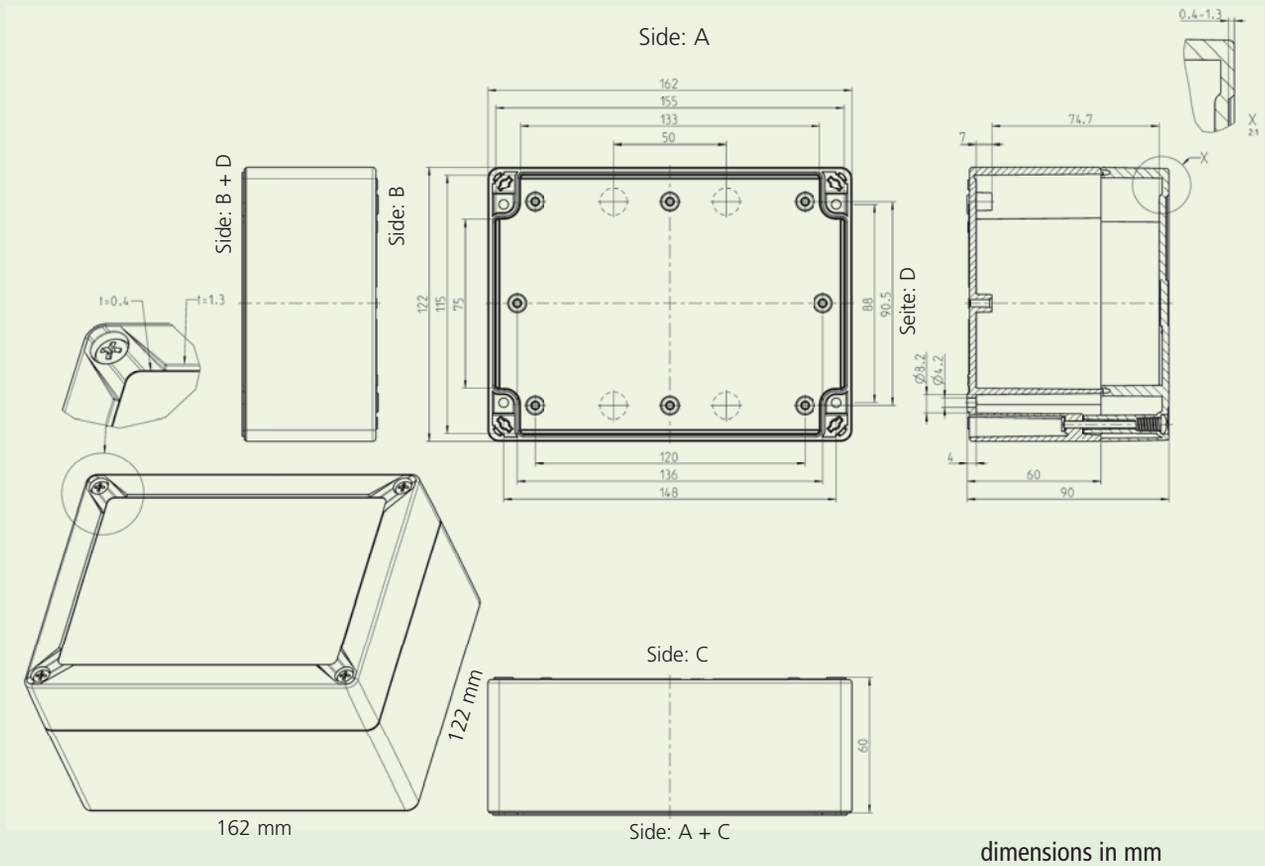
Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1608-9-o	**height/mm** 90	200 906 01	1/1

TG PC 1608
162 x 82 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1608-9-to	**height/mm** 90	201 506 01	1/1



On reqest:
Customized solution!



Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	12	8
16	10	5
20	4	3
25	3	2
32	2	2
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 1612
162 x 122 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1612-9-o	**height/mm** 90	100 407 01	1/1

TG ABS 1612
162 x 122 mm

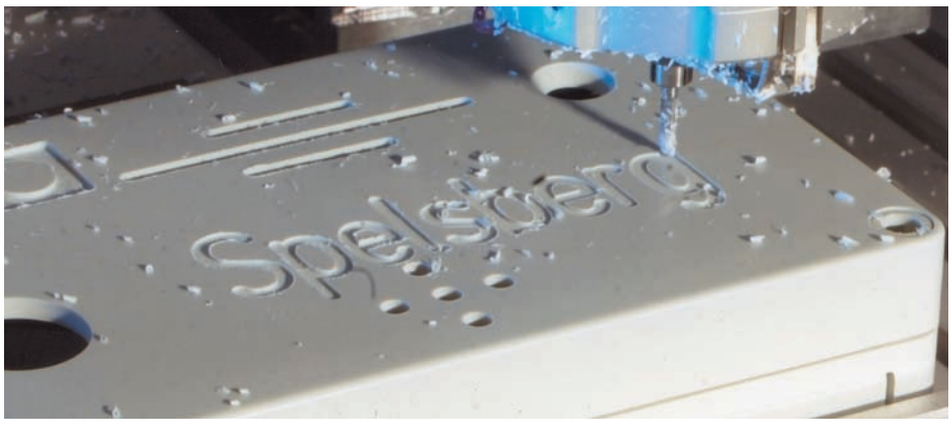
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 1612-9-to	**height/mm** 90	101 007 01	1/1

TG PC 1612
162 x 122 mm

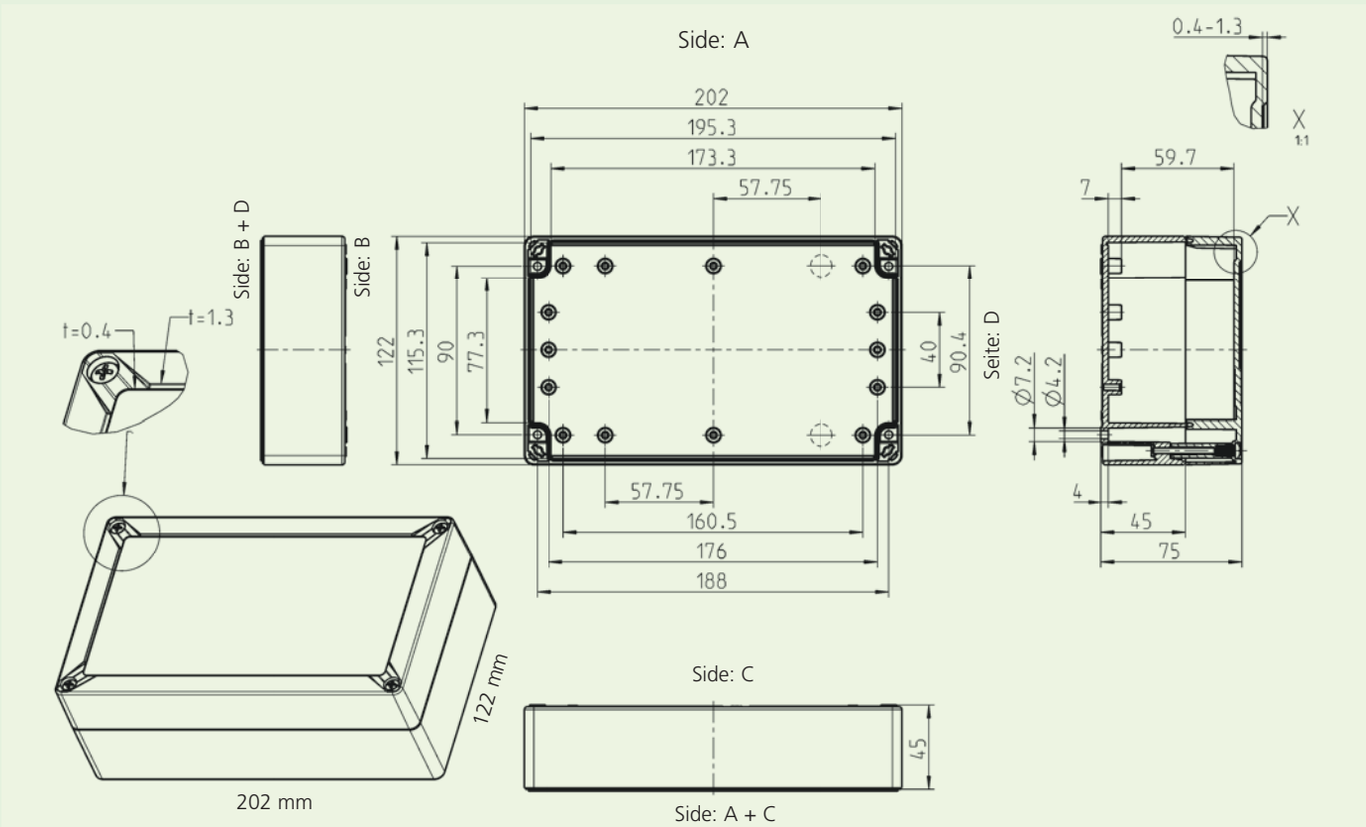
Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1612-9-o	**height/mm** 90	200 407 01	1/1

TG PC 1612
162 x 122 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 1612-9-to	**height/mm** 90	201 007 01	1/1



On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	16	6
16	8	3
20	5	2
25	4	2
32	-	-
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 2012
202 x 122 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2012-8-o	**height/mm** 75	100 408 01	1/1

TG ABS 2012
202 x 122 mm

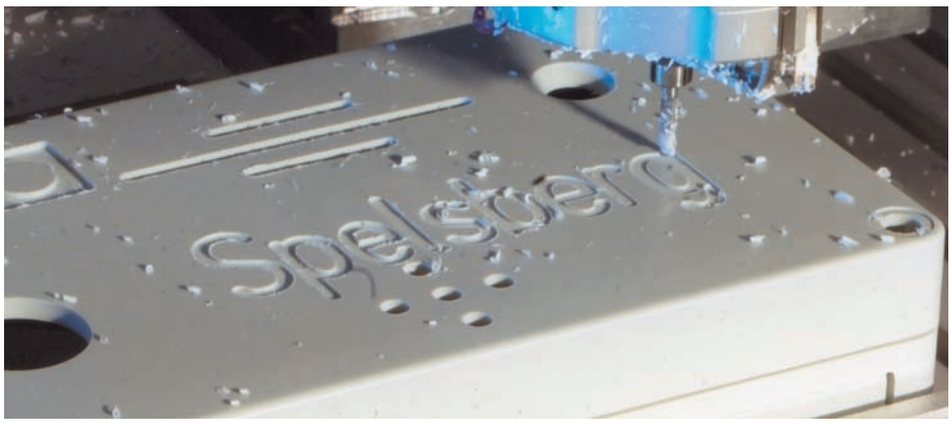
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2012-8-to	**height/mm** 75	101 008 01	1/1

TG PC 2012
202 x 122 mm

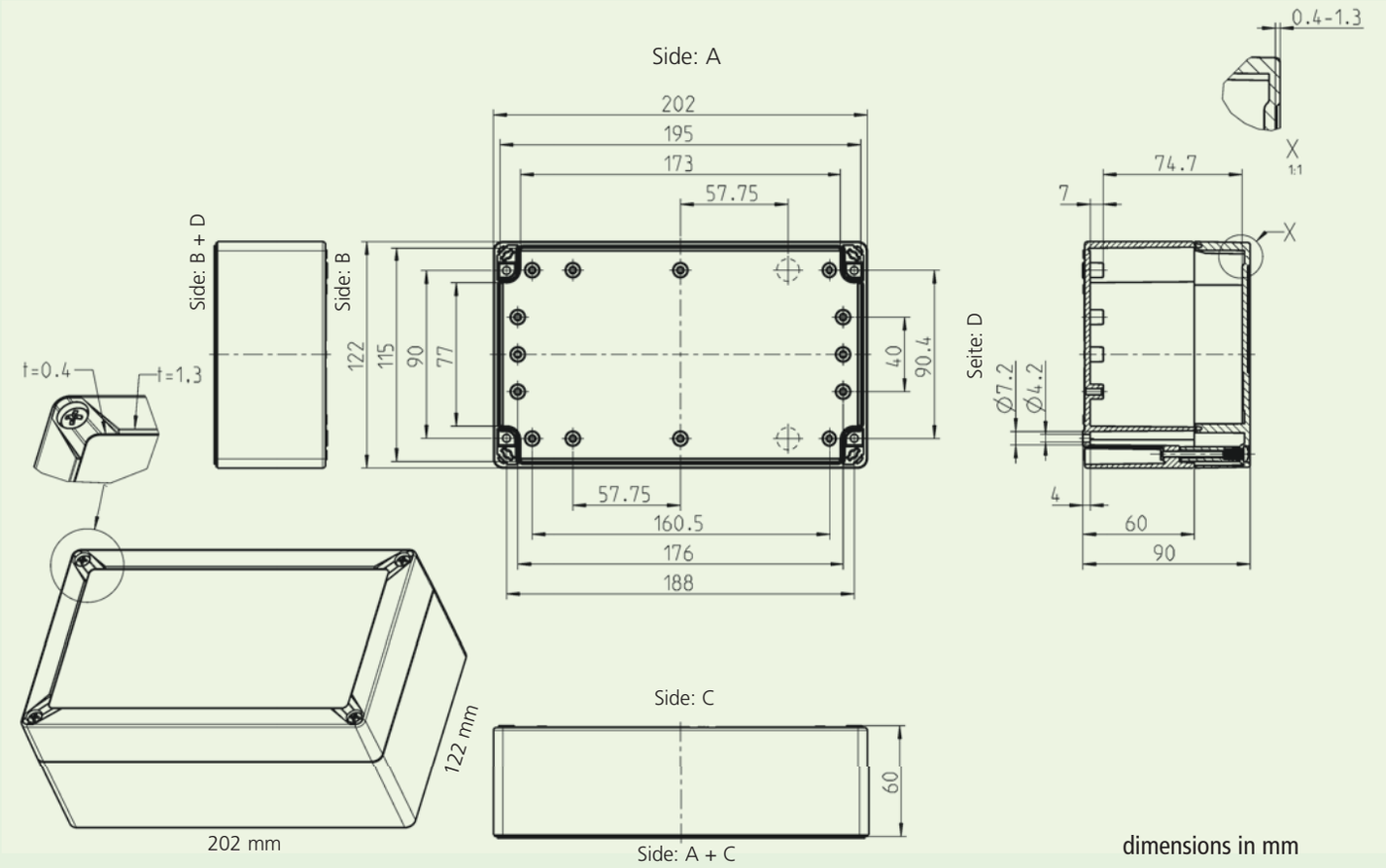
Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 2012-8-o	**height/mm** 75	200 408 01	1/1

TG PC 2012
202 x 122 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 2012-8-to	**height/mm** 75	201 008 01	1/1



On reqest:
Customized solution!



Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	16	6
16	12	3
20	5	3
25	4	2
32	3	1
40	-	-
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 2012
202 x 122 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2012-9-o	**height/mm** 90	100 908 01	1/1

TG ABS 2012
202 x 122 mm

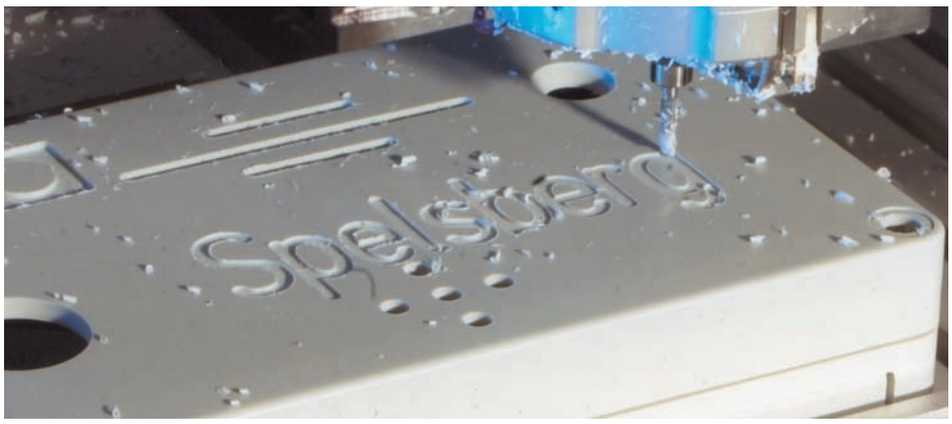
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2012-9-to	**height/mm** 90	101 508 01	1/1

TG PC 2012
202 x 122 mm

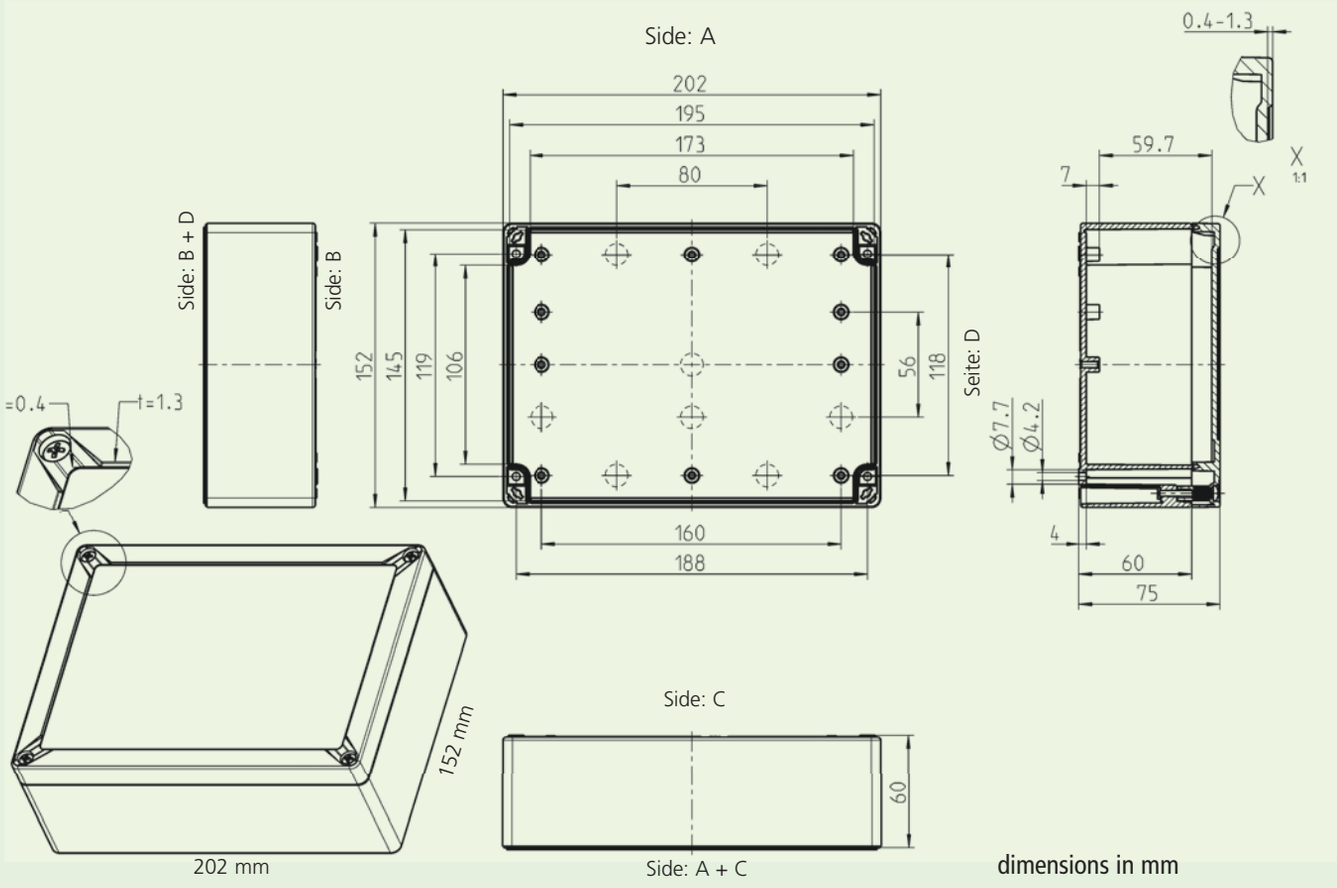
Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 2012-9-o	**height/mm** 90	200 908 01	1/1

TG PC 2012
202 x 122 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 2012-9-to	**height/mm** 90	201 508 01	1/1



On reqest:
Customized solution!



Maximum possible metric through holes per side

M	A/C	B/D
12	16	10
16	12	8
20	5	4
25	4	3
32	3	2
40	-	-
50	-	-

Drawings under
www.box-finder.com

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 2015
202 x 152 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, Box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2015-8-o	**height/mm** 75	100 409 01	1/1

TG ABS 2015
202 x 152 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2015-8-to	**height/mm** 75	101 009 01	1/1

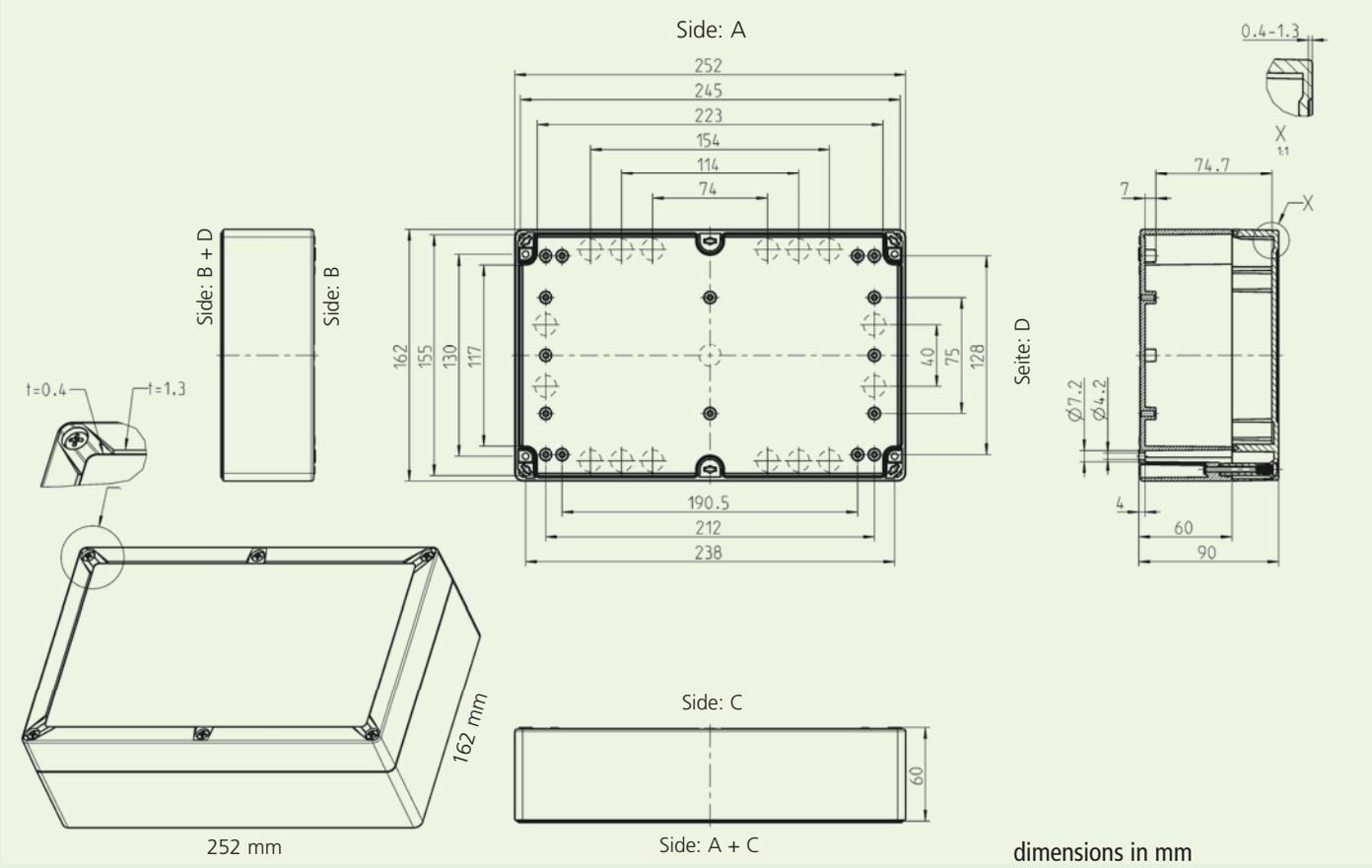
TG PC 2015
202 x 152 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG ABS 2015-8-o	**height/mm** 75	100 409 01	1/1

TG PC 2015
202 x 152 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG ABS 2015-8-to	**height/mm** 75	101 009 01	1/1

On reqest:
Customized solution!



Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	20	10
16	12	8
20	6	3
25	4	3
32	4	2
40	2	2
50	-	-

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 2516
252 x 162 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2516-9-o	**height/mm** 90	100 412 01	1/1

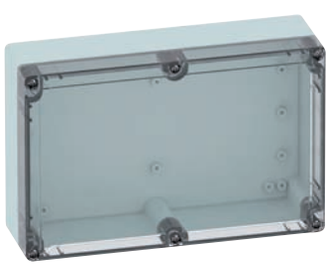
TG ABS 2516
252 x 162 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2516-9-to	**height/mm** 90	101 012 01	1/1

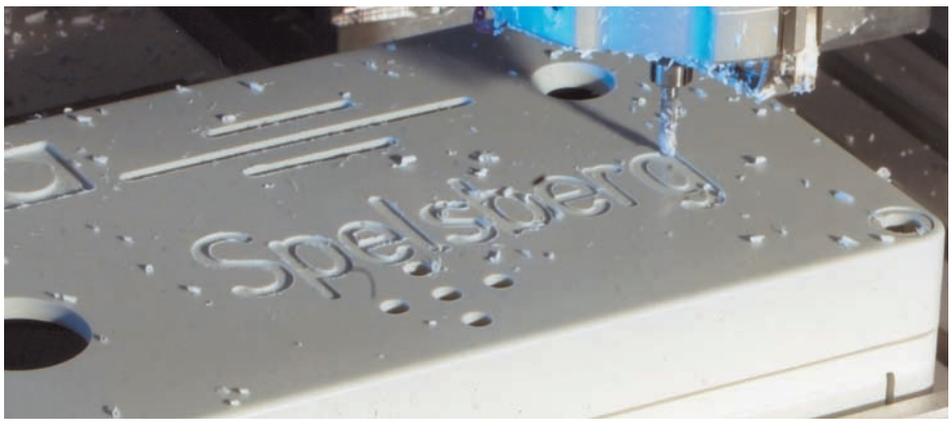
TG PC 2516
252 x 162 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG ABS 2516-9-o	**height/mm** 90	100 412 01	1/1

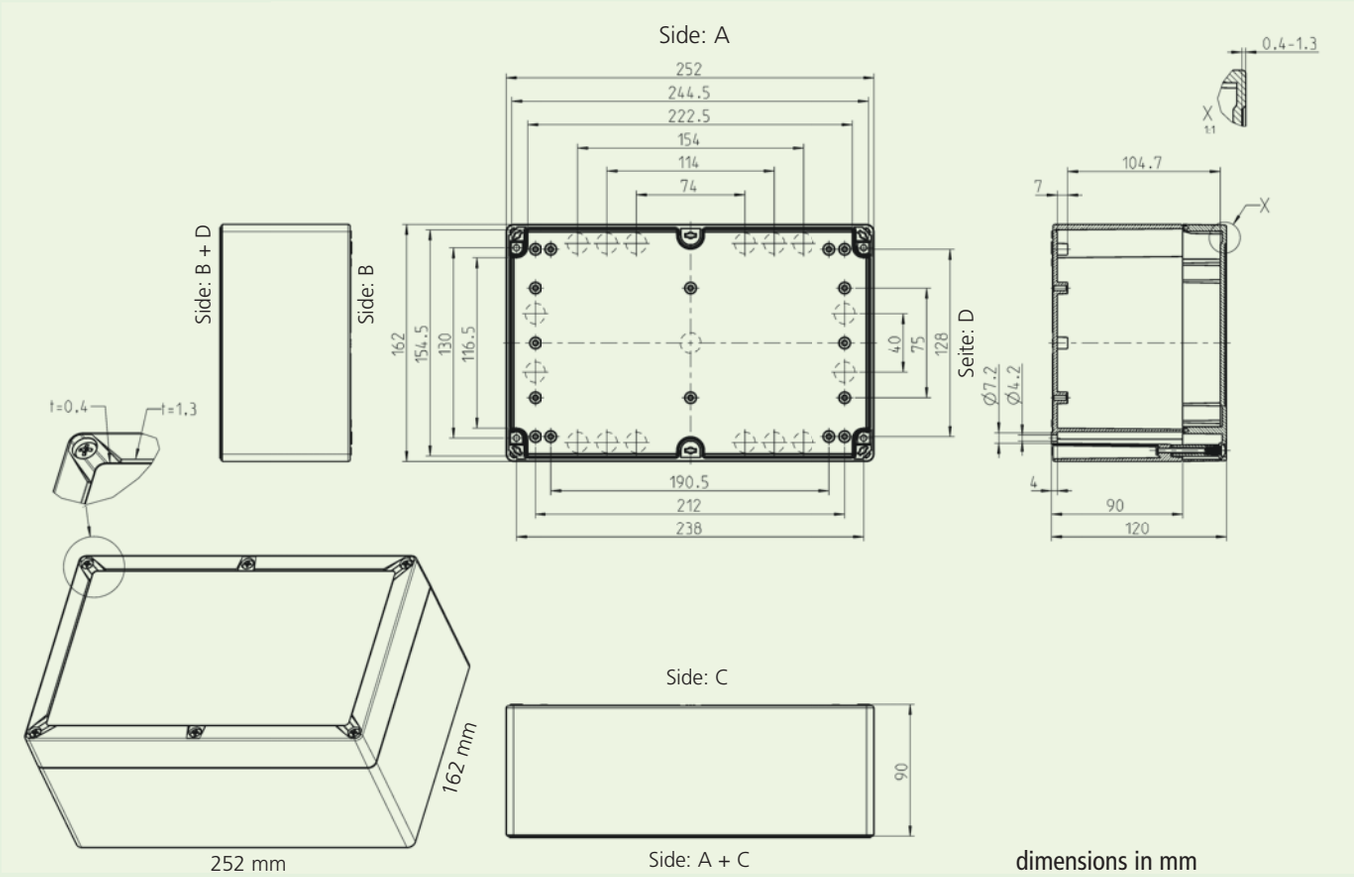
TG PC 2516
252 x 162 mm



Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 2516-9-to	**height/mm** 90	201 012 01	1/1



On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	40	20
16	18	12
20	12	8
25	8	6
32	6	3
40	2	2
50	2	1

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 2516
252 x 162 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2516-12-o	**height/mm** 120	100 912 01	1/1

TG ABS 2516
252 x 162 mm

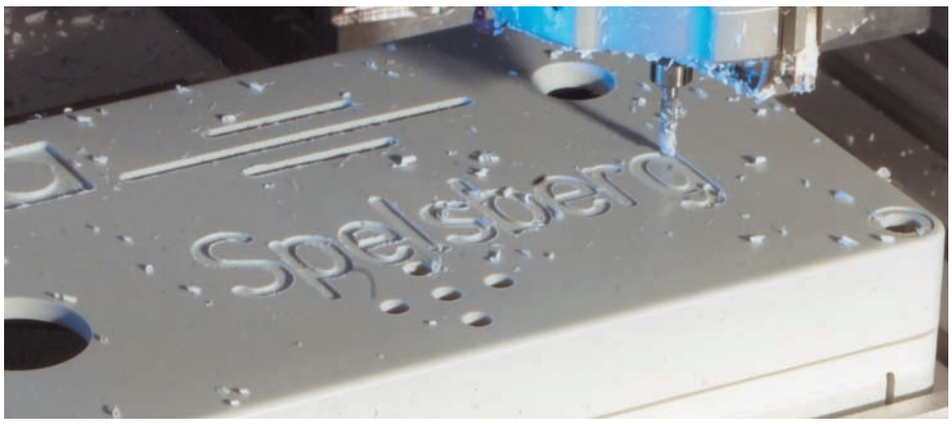
Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 2516-12-to	**height/mm** 120	101 512 01	1/1

TG PC 2516
252 x 162 mm

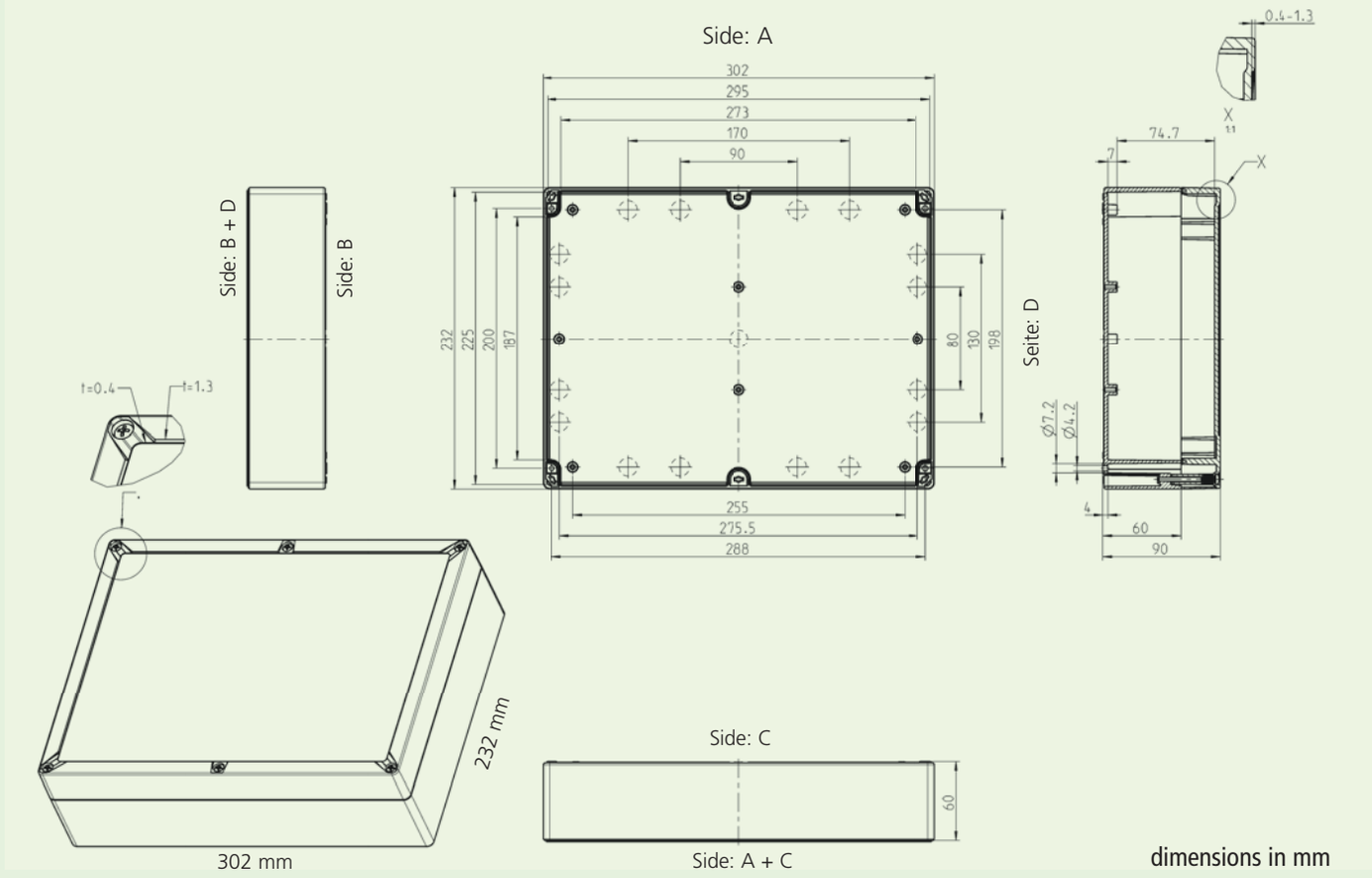
Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG ABS 2516-12-o	**height/mm** 120	100 912 01	1/1

TG PC 2516
252 x 162 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 2516-12-to	**height/mm** 120	201 512 01	1/1



On reqest:
Customized solution!



Maximum possible metric through holes per side

M	A/C	B/D
12	24	18
16	16	14
20	8	6
25	6	5
32	4	4
40	4	2
50	-	-

Drawings under
www.box-finder.com

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

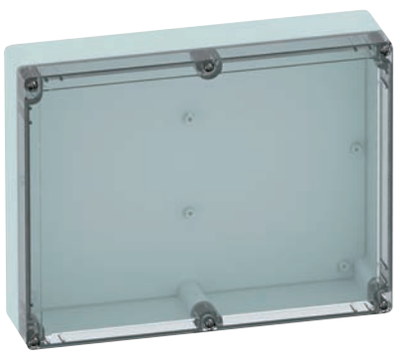
Length x width in cm

o= without pre-embossing

TG ABS 3023
302 x 232 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 3023-9-o	**height/mm** 90	100 413 01	1/1

TG ABS 3023
302 x 232 mm



Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 3023-9-to	**height/mm** 90	101 013 01	1/1

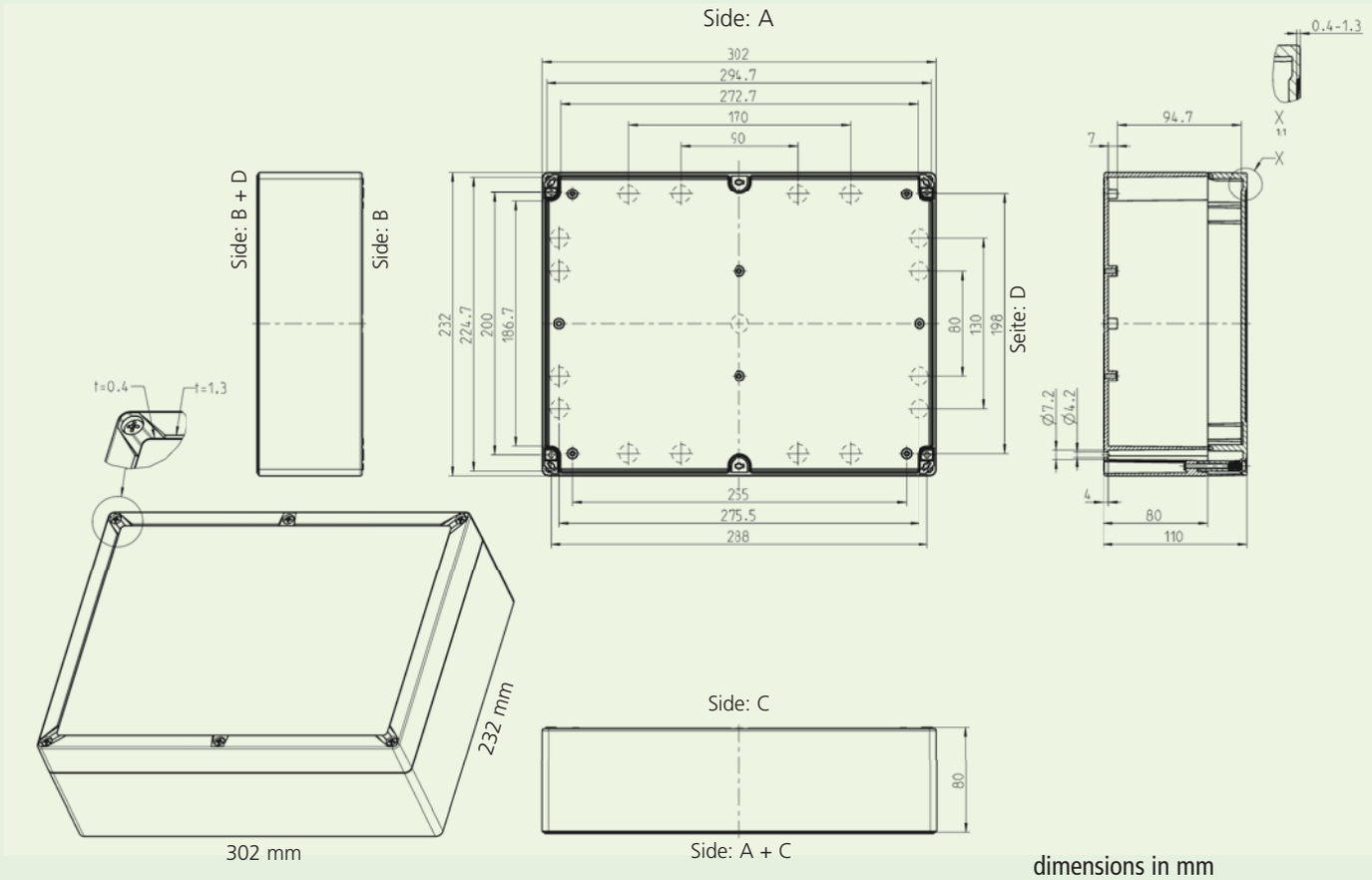
TG PC 3023
302 x 232 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG ABS 3023-9-o	**height/mm** 90	100 413 01	1/1

TG PC 3023
302 x 232 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 3023-9-to	**height/mm** 90	201 013 01	1/1

On reqest:
Customized solution!



dimensions in mm

Drawings under
www.box-finder.com

Maximum possible metric through holes per side

M	A/C	B/D
12	36	27
16	26	20
20	16	12
25	12	9
32	6	4
40	4	3
50	2	2

TG Designation Scheme

Material:
ABS
PC=
Polycarbonate

Height in cm

Cover material
t= transparent
no description
= grey

ABS 1208-8-o

Length x width in cm

o= without pre-embossing

TG ABS 3023
302 x 232 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box and cover: ABS, grey similar to RAL 7035			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 3023-11-o	**height/mm** 110	100 913 01	1/1

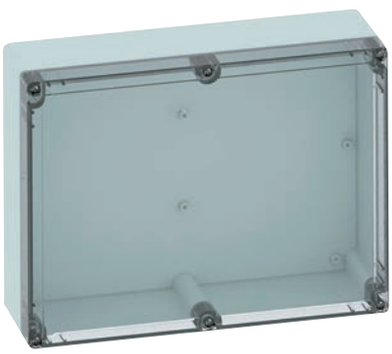
TG ABS 3023
302 x 232 mm

Description		Order No.	Packing Qty
Empty Enclosure U_i=690V, box: ABS, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK07 690V AC 1000V DC halogen-free			
TG ABS 3023-11-to	**height/mm** 110	101 513 01	1/1

TG PC 3023
302 x 232 mm

Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box and cover: polycarbonate, grey similar to RAL 7035			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 3023-11-o	**height/mm** 110	200 913 01	1/1

TG PC 3023
302 x 232 mm



Description		Order No.	Packing Qty
Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, box: polycarbonate, grey similar to RAL 7035, cover: polycarbonate, transparent			
IP67 IK08 690V AC 1000V DC UL halogen-free			
TG PC 3023-11-to	**height/mm** 110	201 513 01	1/1

Mounting plates

Description			Order No.	Packing Qty
Mounting plate made from insulating material				
	Dimensions/mm	**for type**		
TG MPI-88	73 x 73 x 2.5	TG 88	186 003 01	1/1
TG MPI-1208	91 x 73 x 2.5	TG 1208	186 004 01	1/1
TG MPI-1212	113 x 93 x 2.5	TG 1212	186 005 01	1/1
TG MPI-1608	131 x 73 x 2.5	TG 1608	186 006 01	1/1
TG MPI-1612	131 x 113 x 2.5	TG 1612	186 007 01	1/1
TG MPI-2012	171 x 113 x 2.5	TG 2012	186 008 01	1/1
TG MPI-2015	171 x 143 x 2.5	TG 2015	186 009 01	1/1
TG MPI-2516	220 x 152 x 2.5	TG 2516	186 012 01	1/1
TG MPI-3023	270 x 220 x 2.5	TG 3023	186 013 01	1/1

Mounting plates

Mounting plate made from stainless steel				
	Dimensions/mm	**for type**		
TG MPS-88	73 x 73 x 2.0	TG 88	187 003 01	1/1
TG MPS-1208	91 x 73 x 2.0	TG 1208	187 004 01	1/1
TG MPS-1212	113 x 93 x 2.0	TG 1212	187 005 01	1/1
TG MPS-1608	131 x 73 x 2.0	TG 1608	187 006 01	1/1
TG MPS-1612	131 x 113 x 2.0	TG 1612	187 007 01	1/1
TG MPS-2012	171 x 113 x 2.0	TG 2012	187 008 01	1/1
TG MPS-2015	171 x 143 x 2.0	TG 2015	187 009 01	1/1
TG MPS-2516	220 x 152 x 2.0	TG 2516	187 012 01	1/1
TG MPS-3023	220 x 152 x 2.0	TG 3023	187 013 01	1/1

Mounting rail NS 35

Mounting rail according to DIN EN 60715, 35 x 7.5, width 35mm			
	for type		
NS 35-68	TG 88	198 068 01	1/1
NS 35-106/2	TG 1208	198 107 01	1/1
NS 35-110	TG 1212	198 110 01	1/1
NS 35-131	TG 1608	198 131 01	1/1
NS 35-146	TG 1612	198 146 01	1/1
NS 35-186	TG 1212	198 186 01	1/1
NS 35-170	TG 2015	198 170 01	1/1
NS 35-222	TG 2516	198 222 01	1/1
NS 35-285	TG 3023	198 285 01	1/1

Mounting rail TS 15

Description		Order No.	Packing Qty
Mounting rail according to DIN EN 60715, 15 x 5, width 15 mm			
	for type		
TS 15-68	TG 88	197 069 01	1/1
TS 15-106/2	TG 1208	197 107 01	1/1
TS 15-110	TG 1212	197 110 01	1/1
TS 15-131	TG 1608	197 131 01	1/1
TS 15-146	TG 1612	197 146 01	1/1
TS 15-186	TG 2012	197 186 01	1/1
TS 15-170	TG 2012	197 170 01	1/1
TS 15-222	TG 2516	197 222 01	1/1
TS 15-285	TG 3023	197 285 01	1/1

Interior hinge set

Application

Interior hinge set for retrofitting the housing cover to a hinged door, incl. 2 hinges, fixing screws and drilling template		
TG ISS for TG 1212, TG 1612, TG 2012, TG 2015, TG 2516, TG 3023	182 001 01	1/1

External fixing lugs kit

External fixing lugs kit, made from plastic		
TG ABL for all TG enclosures, Set = 4 pieces	182 002 01	1/1

Hole cutter

Hole cutter		
LFR through opening: M16-32 drill hole: 16.5-32.5	195 995 01	1/1

Sealing set

Application

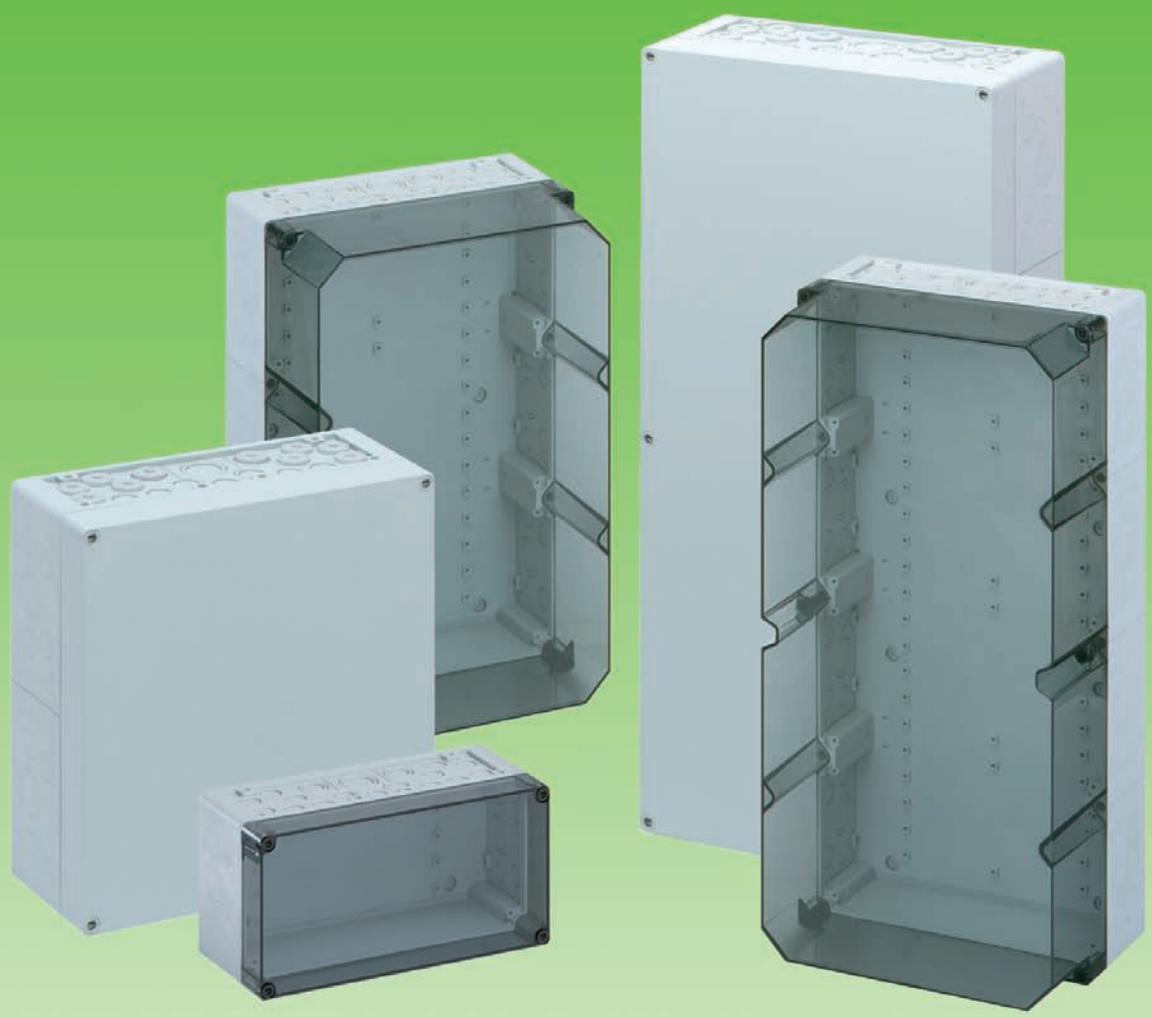
Sealing set		
TG PST 1 for TG 88, TG 1208, TG 1212, TG 1608, TG 2015	182 004 01	500/1
TG PST 2 for TG 1612, TG 2012, TG 2516, TG 3023	182 005 01	500/1

AKL / AKi Empty enclosures

IP65 IK07 690V AC 1000V DC halogen-free

IP65 IK08 690V AC 1000V DC halogen-free

Industrial quality

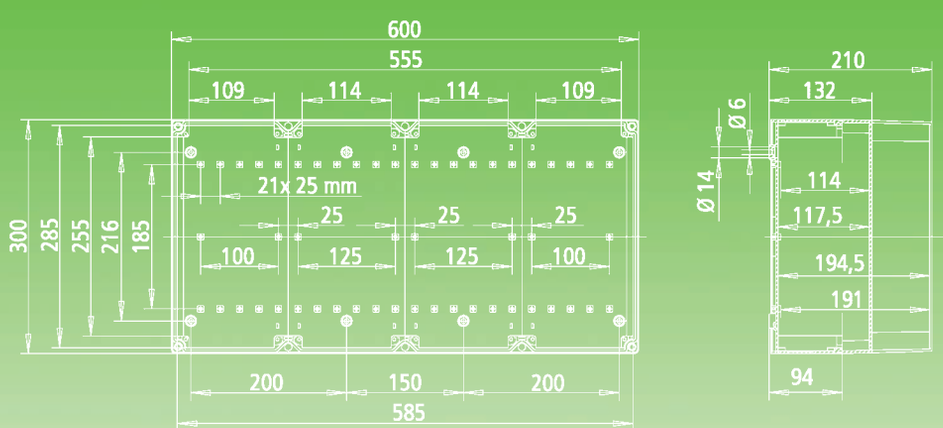


AKL/AKi-Empty Enclosures
- IP 65
- shockproof
- grey, similar to RAL 7035

- 4 basic enclosures with 2 different cover heights
- can be simply combined
- Enclosure size up to 600 x 300 mm

- Polystyrol

- fibre reinforced and transparent Polycarbonate
- break-proof
- non-inflammable



Dimension drawings can be directly downloaded from our website:

www.boxfinder.de

740 401 01

744 001 01

Entries sidewalls each:

15 x M20

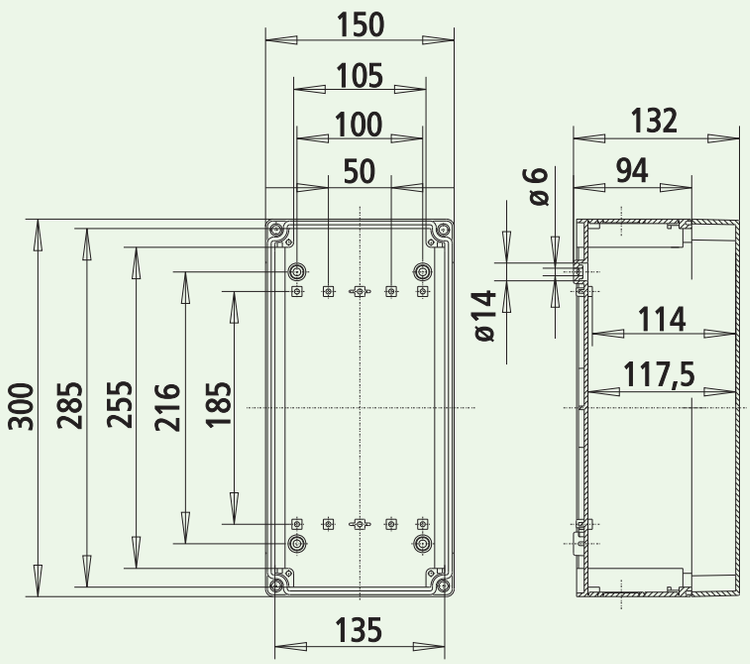
2 x M20 / M25

1 x M32 / M40

sidewalls each:

4 x M20

1 x M25 / M32



	Description		Order No.	Packing Qty
AKL 1-g 300 x 150 mm	Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box and cover: polystyrene, grey, similar to RAL 7035			
	IP65 IK07 690V AC 1000V DC halogen-free			
Entries end: 15 x M20 2 x M20/M25 1 x M32/M40 Entries on each side: 4 x M20 1 x M25/M32	**AKL 1-g**	**height/mm** 132	740 401 01	1/1
AKL 1-t 300 x 150 mm	Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box: polystyrene, colour grey, similar to RAL 7035, cover: polycarbonate, transparent			
	IP65 IK07 690V AC 1000V DC halogen-free			
Entries end: 15 x M20 2 x M20/M25 1 x M32/M40 Entries on each side: 4 x M20 1 x M25/M32	**AKL 1-t**	**height/mm** 132	744 001 01	1/1
AKi 1-g 300 x 150 mm	Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035			
	IP65 IK08 690V AC 1000V DC halogen-free			
Entries end: 15 x M20 2 x M20/M25 1 x M32/M40 Entries on each side: 4 x M20 1 x M25/M32	**AKi 1-g**	**height/mm** 132	741 401 01	1/1
AKi 1-t 300 x 150 mm	Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: polycarbonate, transparent			
	IP65 IK08 690V AC 1000V DC halogen-free			
Entries end: 15 x M20 2 x M20/M25 1 x M32/M40 Entries on each side: 4 x M20 1 x M25/M32	**AKi 1-t**	**height/mm** 132	745 001 01	1/1

740 402 01

744 002 01

Entries sidewalls each:

15 x M20

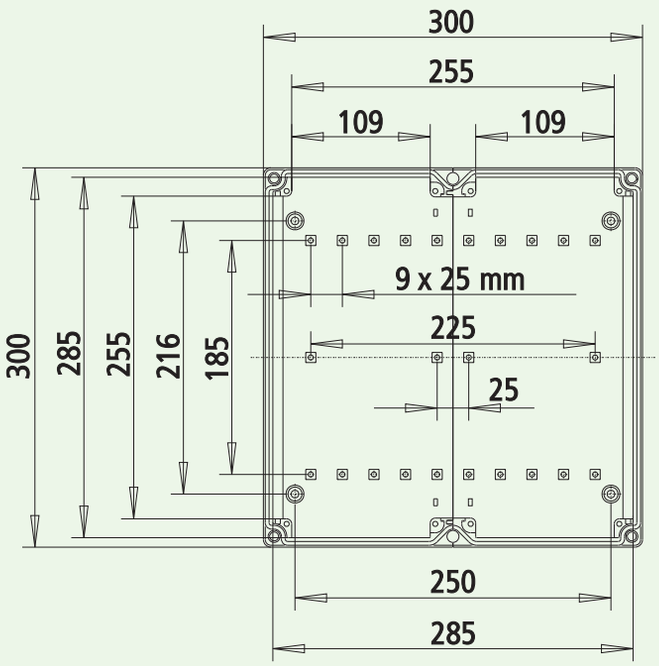
2 x M20 / M25

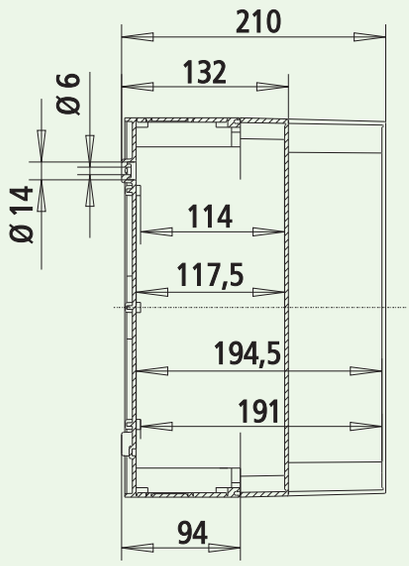
1 x M32 / M40

sidewalls each:

8 x M20

2 x M25 / M32





AKL 2-g
300 x 300 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

Description: Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box and cover: polystyrene, grey, similar to RAL 7035

IP65 | IK07 | 690V AC | 1000V AC | halogen-free

	height/mm	Order No.	Packing Qty
AKL 2-g	132	740 402 01	1/1
AKL 2-gh	210	742 902 01	1/1

AKL 2-t
300 x 300 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

Description: Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box: polystyrene, colour grey, similar to RAL 7035, cover: polycarbonate, transparent

IP65 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKL 2-t	132	744 002 01	1/1
AKL 2-th	210	746 902 01	1/1

AKi 2-g
300 x 300 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

Description: Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP65 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKi 2-g	132	741 402 01	1/1
AKi 2-gh	210	743 902 01	1/1

AKi 2-t
300 x 300 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
8 x M20
2 x M25/M32

Description: Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: polycarbonate, transparent

IP65 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKi 2-t	132	745 002 01	1/1
AKi 2-th	210	747 902 01	1/1

740 403 01

744 003 01

Entries sidewalls each:

15 x M20

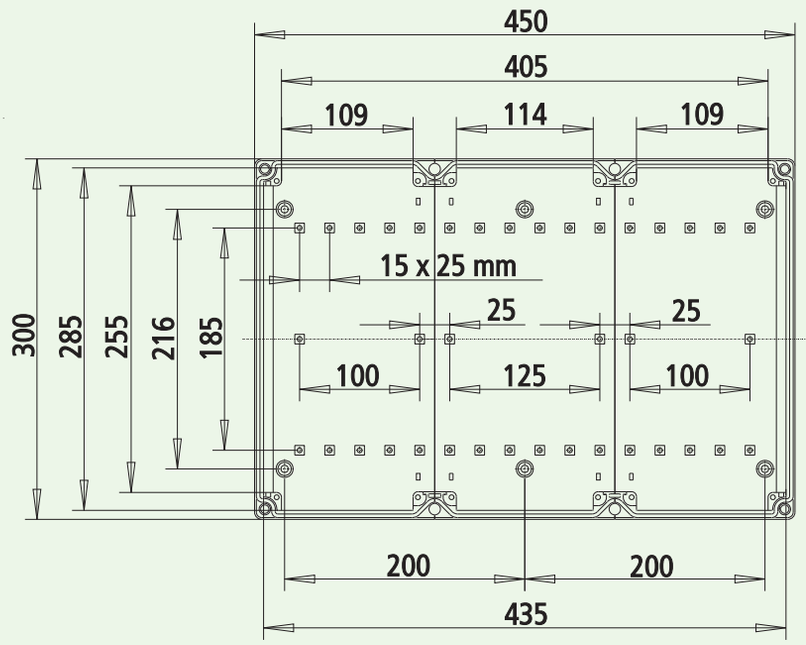
2 x M20 / M25

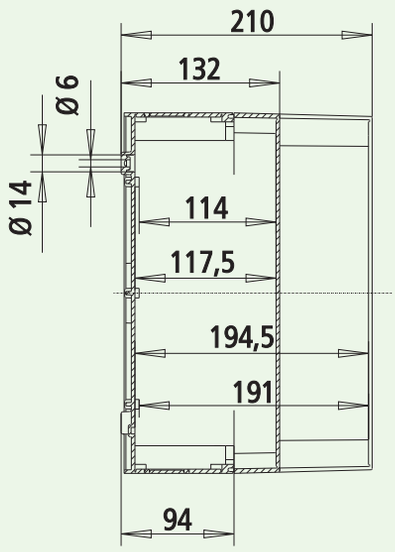
1 x M32 / M40

sidewalls each:

12 x M20

3 x M25 / M32





AKL 3-g
300 x 450 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

Description: Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box and cover: polystyrene, grey, similar to RAL 7035

IP65 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKL 3-g	132	740 403 01	1/1
AKL 3-gh	210	742 903 01	1/1

AKL 3-t
300 x 450 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

Description: Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box: polystyrene, colour grey, similar to RAL 7035, cover: polycarbonate, transparent

IP65 | IK07 | 690V AC | 1000V AC | halogen-free

	height/mm	Order No.	Packing Qty
AKL 3-t	132	744 003 01	1/1
AKL 3-th	210	746 903 01	1/1

AKi 3-g
300 x 450 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

Description: Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing plugs, Insulating seals, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP65 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKi 3-g	132	741 403 01	1/1
AKi 3-gh	210	743 903 01	1/1

AKi 3-t
300 x 450 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
12 x M20
3 x M25/M32

Description: Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: polycarbonate, transparent

IP65 | IK08 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKi 3-t	132	745 003 01	1/1
AKi 3-th	210	747 903 01	1/1

740 404 01

744 004 01

Entries sidewalls each:

15 x M20

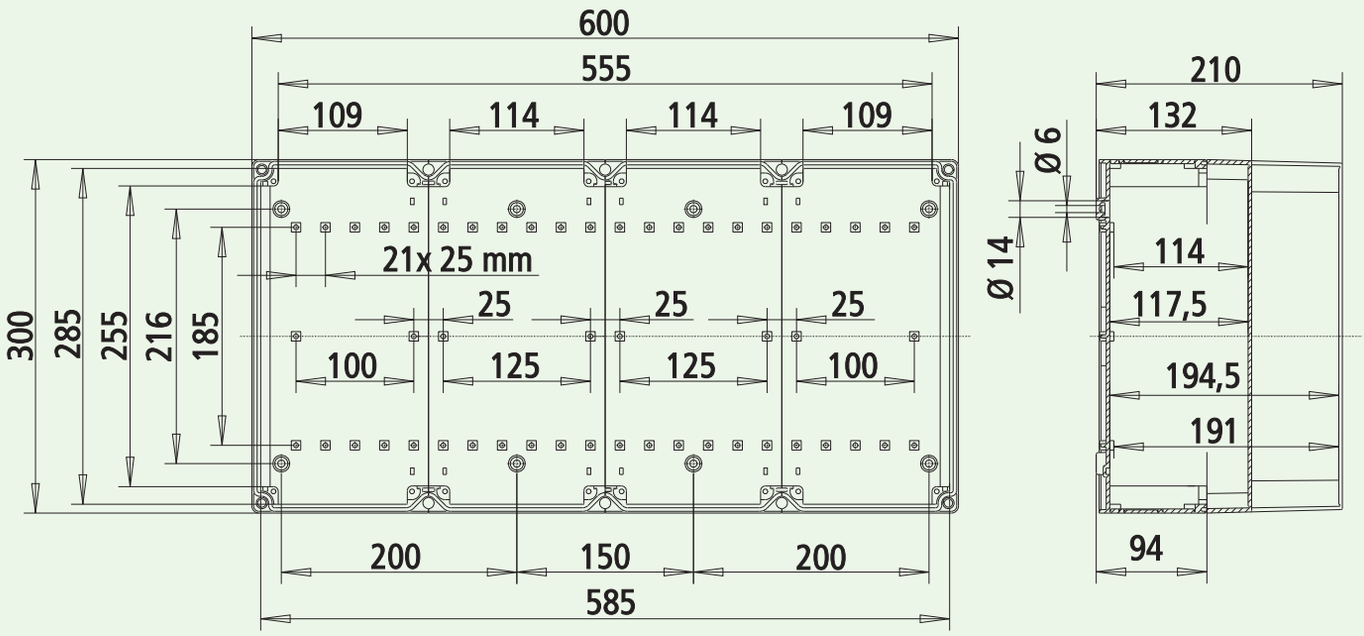
2 x M20 / M25

1 x M32 / M40

sidewalls each:

16 x M20

4 x M25 / M32



AKL 4-g
300 x 600 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Description

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP65 | IK07 | 690V AC | 1000V AC | halogen-free

	height/mm	Order No.	Packing Qty
AKL 4-g	132	740 404 01	1/1
AKL 4-gh	210	742 904 01	1/1

AKL 4-t
300 x 600 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Empty enclosure U_i=690 V, with attachment bushes, sealing and insulating plugs, box: polystyrene, colour grey, similar to RAL 7035, cover: Polycarbonate, transparent

IP65 | IK07 | 690V AC | 1000V DC | halogen-free

	height/mm	Order No.	Packing Qty
AKL 4-t	132	744 004 01	1/1
AKL 4-th	210	746 904 01	1/1

AKi 4-g
300 x 600 mm

Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing plugs, Insulating seals, box and cover: glass fibre reinforced polycarbonate, grey, similar to RAL 7035

IP65 | IK08 | 690V AC | 1000V DC | halogen-free | i-Q

	height/mm	Order No.	Packing Qty
AKi 4-g	132	741 404 01	1/1
AKi 4-gh	210	743 904 01	1/1

AKi 4-t
300 x 600 mm

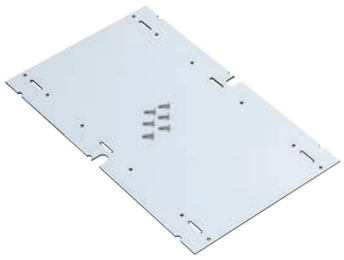
Entries end:
15 x M20
2 x M20/M25
1 x M32/M40
Entries on each side:
16 x M20
4 x M25/M32

Empty enclosure - **I**ndustrial **Q**uality - U_i=690V, with attachment bushes, sealing and insulating plugs, box: glass fibre reinforced polycarbonate, grey, similar to RAL 7035, cover: polycarbonate, transparent

IP65 | IK08 | 690V AC | 1000V DC | halogen-free | i-Q

	height/mm	Order No.	Packing Qty
AKi 4-t	132	745 004 01	1/1
AKi 4-th	210	747 904 01	1/1

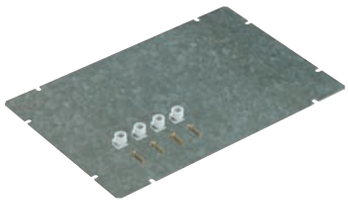
AK Mounting flange (insulating material)



Made of insulation material for fitting in equipment with floor fixing, including fixing screws, main cable junction terminal - Industrial Quality - with cross-sectional area

	Dimensions/mm	for type	Order No.	Packing Qty
AK MPI 1	240 x 112 x 4.0	AKL / AKi 1-4	795 001 01	1/1
AK MPI 2	240 x 240 x 4.0	AKL / AKi 2-4	795 002 01	1/1
AK MPI 3	240 x 390 x 4.0	AKL / AKi 3-4, Abox/Abox-i 700	795 003 01	1/1
AK MPI 4	240 x 540 x 4.0	AKL / AKi 4	795 004 01	1/1

AK Mounting flange (steel plate)



Made of steel, incl. fixing screws

	Dimensions/mm	for type		
AK MPS 2	10 x 16 x 2.0	AKL / AKi 1-4	795 012 01	1/1
AK MPS 3	240 x 390 x 2.0	AKL / AKi 3-4	795 013 01	1/1
AK MPS 4	240 x 540 x 2.0	AKL / AKi 4	795 014 01	1/1

AK Mounting flange

For installation in the components of the AK enclosure system for 300 mm wide end walls (AKL, AKZ, ...). The distribution boxes from AK/AKi 14 and from AK/AKi 14 Plus are provided with cable covers as standard

AK ABF 1 with pre-embossing, 2 x M32 / M40 / M50, 1 x M40 / M50 / M63	795 048 01	1/1
AK ABF 2 smooth for self-drilling	795 050 01	1/1

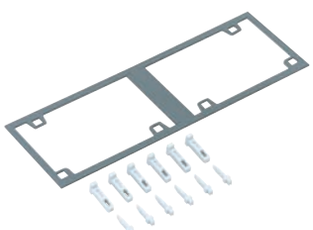
AKi Mounting flange

Mounting flange for attachment to components of AKi housing system to 300 mm wide sides, complete with fixing material

AKi ABF 1 with pre-embossing, 2 x M32 / M40 / M50, 1 x M40 / M50 / M63	796 051 01	1/1
AKi ABF 2 smooth for self-drilling	796 050 01	1/1

AK Combi set

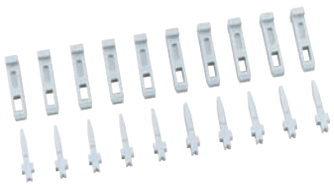
IP65



For horizontal or vertical combination of all AK enclosures from 300 x 150 mm, complete with wedge connectors and intermediate sealing for 150 and 300 mm enclosure sides each 300 mm = 1 combi set

AK KS-IP65	791 001 01	100/1

AK Combi set



IP30

Combi set without intermediate enclosure seal, for horizontal or vertical combination of all AK enclosures from 300 x 150 mm, 1 set = 10 wedge connectors

Description		Order No.	Packing Qty
AK KS-IP30		591 100 01	1/1

Combi set

IP66

Combi set, for side connection of housings with metric openings, complete with lock nuts and intermediate wall seal inserts

	f. wall thicknesses/mm		
KS M20	2.0 x 3.0	192 020 01	100/1
KS M25	2.0 x 3.0	192 025 01	50/1
KS M32	2.0 x 3.5	192 032 01	50/1
KS M40	2.0 x 3.5	192 040 01	50/1

Combi connector

IP54

Combination connector, for connecting enclosures, thermo plastic

KST M32 f. wall thicknesses, 1.5 - 4.0 mm	193 032 01	150/1

Mounting rail NS 35

Mounting rail according to DIN EN 60715, 35 x 7.5, width 35mm

AK NS35-250 from 300 x 300 mm, length 250 mm, including spacers	562 735 01	1/1
NS35-216/3 universal floor fixing, length 216 mm, with fixing screws	795 030 01	1/1
AK NS35-406 universal floor fixing, incl. fixing screws, Length 406 mm	795 045 01	1/1
AK NS35-556 universal floor fixing, incl. fixing screws, Length 556 mm	795 060 01	1/1

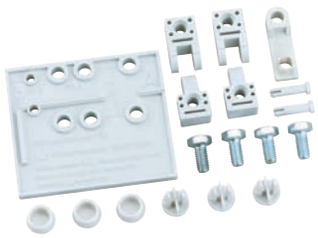
Support NS

Description	Order No.	Packing Qty
For standard rails according DIN EN 50 022-35 x 7.5, Set = 10 pieces		
height/mm		
TR NS35-20	795 020 01	1/1
TR NS35-64	795 064 01	1/1
TR NS35-91	795 091 01	1/1
SR NS35	795 413 01	1/1

AK External attachment set

External fixing lugs, for mounting of separate enclosures or small units on flat wall surfaces, may be fixed to the bottom of the enclosure at an angle of 0°, 45°, or 90°, wall gap 7 mm		
AK ABL-ES Set = 4 pieces	793 004 01	50/1

Hinge set



For converting the upper part of enclosure to a door, for the components of the AK enclosure system from size 300 x 150 mm, complete with drilling template, fixing screws and locking seals		
ASS-gro External hinge set large	190 005 01	200/1

Padlock kit

Padlock kit for upgrading the housing cover to lockable hinged door, incl. padlock, 2 hinges, fixing screws, cover plugs and drilling template		
VSG	190 100 01	20/1

Partition wall

For installation in the components of the AK enclosure system, 300 mm wide, universal application for various enclosure heights, grey		
AK TW	797 910 01	1/1

Z-wall profile

2000 mm

Description	Order No.	Packing Qty
Z-Wall profile, Zinc coated, length 2 m, with 8 cap-head screws and 8 captive push-fit nuts, wall gap 70 mm		
ZPR	070 800 01	1/1

KF 12 Hinged window

228 x 80 x 23 mm

IP65

Description	Order No.	Packing Qty
For fitting to housing cover, for maximum 12 modules at 17.5 mm, with transparent hinged window, frame with sealing both sides, with drilling template and fixing screws		
KF 12	567 412 01	15/1

SF 12 Inspection window

228 x 80 x 12,5 mm

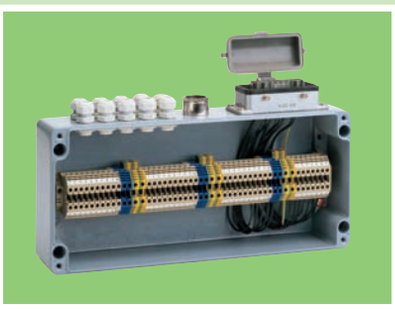
IP65

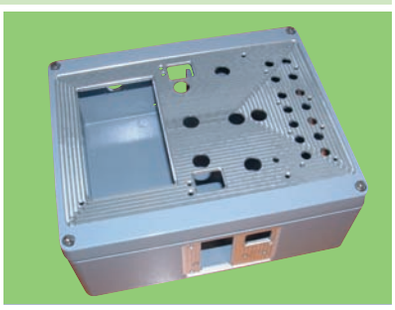
Description	Order No.	Packing Qty
For fitting to housing cover, transparent viewing window, with drilling template and fixing screws		
SF 12	568 012 01	10/1

Aluminium Empty enclosures

IP66 IK09 halogen-free

Industrial quality





AL-Empty Enclosures

- **IP66**
- **Aluminium Al Si 12**
- **Corrosion protection due to powder coated painting silver-grey**
- **RAL 7001**
- **high chemical resistance**
- **high protection against electromagnetic interference**
- **16 standard enclosure sizes**

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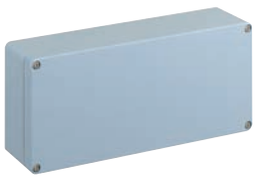
- **increased screening by conductible seals between enclosure components is possible**
- **Special versions can be realized on customer's request**

Description	Order No.	Packing Qty
AL 55-3 50 x 45 x 30 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 55-3	150 001 01	6/1
AL 66-3 64 x 58 x 34 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 66-3	150 002 01	6/1
AL 1006-3 98 x 64 x 34 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 1006-3	150 003 01	4/1
AL 1506-3 150 x 64 x 34 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 1506-3	150 004 01	2/1

	Description	Order No.	Packing Qty
AL 88-6 80 x 75 x 57 mm 	Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
	AL 88-6	150 005 01	1/1
AL 1308-6 125 x 80 x 57 mm 	Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
	AL 1308-6	150 006 01	1/1
AL 1808-6 175 x 80 x 57 mm 	Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
	AL 1808-6	150 007 01	1/1
AL 1010-8 100 x 100 x 80 mm 	Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
	AL 1010-8	150 008 01	1/1

Description	Order No.	Packing Qty
AL 1212-8 122 x 120 x 80 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 1212-8	150 009 01	1/1
AL 2212-8 220 x 120 x 80 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 2212-8	150 010 01	1/1
AL 1616-9 160 x 160 x 90 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 1616-9	150 011 01	1/1
AL 2616-9 260 x 160 x 90 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09		
AL 2616-9	150 012 01	1/1

Description	Order No.	Packing Qty
AL 3616-9 360 x 160 x 90 mm  Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
AL 3616-9	150 013 01	1/1
AL 2023-11 200 x 230 x 110 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
AL 2023-11	150 014 01	1/1
AL 2823-11 280 x 230 x 110 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
AL 2823-11	150 015 01	1/1
AL 3323-11 330 x 230 x 110 mm Empty enclosure, aluminium, powder-coated painting, silver-grey RAL 7001 IP66 IK09 halogen-free		
AL 3323-11	150 016 01	1/1

Mounting plates

Description			Order No.	Packing Qty
Made of steel, incl. fixing screws				
	Dimensions/mm	**Type**		
AL MPS-88	47 x 69 x 1.25	AL 88	155 005 01	1/1
AL MPS-1308	99 x 69 x 1.25	AL 1308	155 006 01	1/1
AL MPS-1808	148 x 69 x 1.25	AL 1808	155 007 01	1/1
AL MPS-1010	70 x 88 x 1.50	AL 1010	155 008 01	1/1
AL MPS-1212	86 x 107 x 1.50	AL 1212	155 009 01	1/1
AL MPS-2212	184 x 107 x 1.50	AL 2212	155 010 01	1/1
AL MPS-1616	115 x 142 x 1.50	AL 1616	155 011 01	1/1
AL MPS-2616	215 x 142 x 1.50	AL 2616	155 012 01	1/1
AL MPS-3616	316 x 142 x 2.00	AL 3616	155 013 01	1/1
AL MPS-2023	153 x 214 x 1.50	AL 2023	155 014 01	1/1
AL MPS-2823	234 x 214 x 2.00	AL 2823	155 015 01	1/1
AL MPS-3323	282 x 214 x 2.00	AL 3323	155 016 01	1/1

Mounting rail NS 35

Mounting rail according to DIN EN 60715, 35 x 7.5, width 35mm				
	length/mm	**Type**		
AL NS35-110	110	AL 1212	162 009 01	1/1
AL NS35-208	208	AL 2212	162 010 01	1/1
AL NS35-145	145	AL 1616	162 011 01	1/1
AL NS35-245	245	AL 2616	162 012 01	1/1
AL NS35-345	345	AL 3616	162 013 01	1/1
AL NS35-186	186	AL 2023	162 014 01	1/1
AL NS35-266	266	AL 2823	162 015 01	1/1
AL NS35-316	316	AL 3323	162 016 01	1/1

External fixing lugs kit

Description		Order No.	Packing Qty
External fixing lugs kit			
AL ALS-kl	up to AL/ALR 1010	154 004 01	1/1
AL ALS-gro	from AL/ALR 1212	154 006 01	1/1

Extrenal hinge set

For upgrading the housing cover to hinged door, incl. 2 hinges, fixing screws, masking-off strips and drilling template, from AL 1010-8			
AL ASS		154 210 01	1/1

Ventilation seal

IPX4

Description	Order No.	Packing Qty
With labyrinth seal to reduce condensation formation in housing, thermoplastic elastomer, grey, for insert in lower housing side		
BST M20 f. wall thicknesses 1.5 - 4.5 mm	262 420 01	600/100

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses/mm	Sealing area/mm		
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

Cable glands

IP68

Cable gland with strain relief, Polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/mm	Sealing area/mm		
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Combi connector

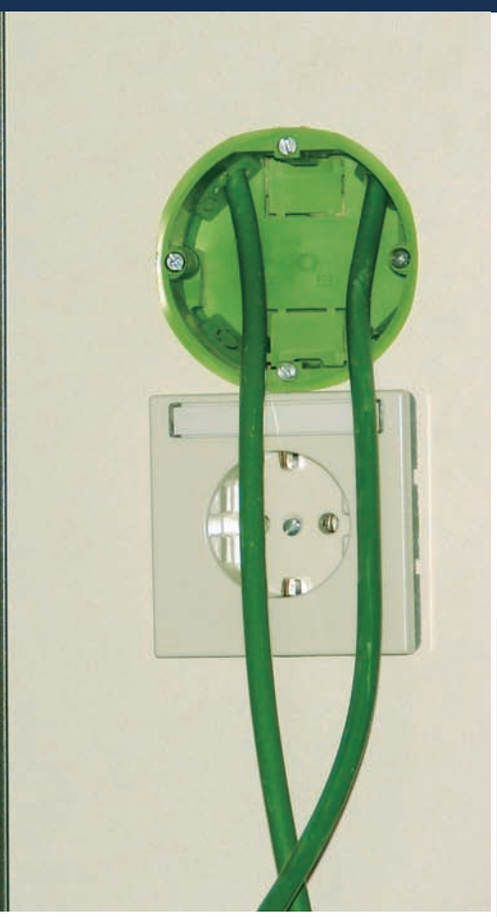
IP54

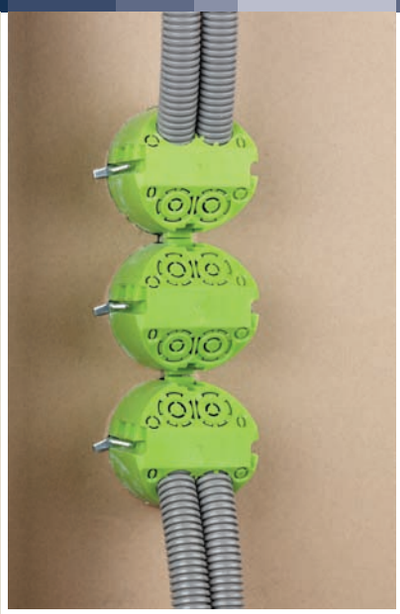
Adapters with open sealing membrane

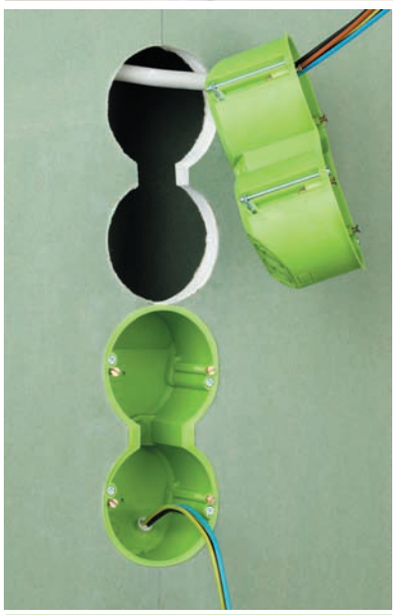
	f. wall thicknesses/mm	Sealing area/mm		
AST M16	1.5 - 4.5	6 - 10	230 416 01	600/50
AST M20	1.5 - 4.5	8 - 13.5	230 420 01	600/50
AST M25	1.5 - 4.5	9 - 18.5	230 425 01	300/50
AST M32	1.5 - 4.5	13 - 23	230 432 01	150/25
AST M40	1.5 - 4.5	17 - 30	230 440 01	120/20

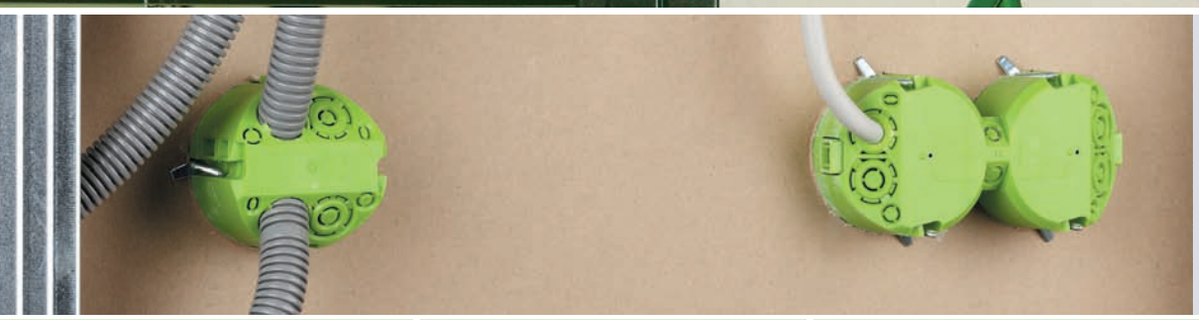
Cavity Wall
Installation System

IP30









- Inclined cable entries are in mounting direction, therefore no bended pipes and cables
- Automatic strain relief for pipes up to 20 mm Ø or cables NYM up to 5 x 2.5²

- Quick and easy installation due to favourable claw position
- Wind-tight version with closed entries available, therefore complete tension relief

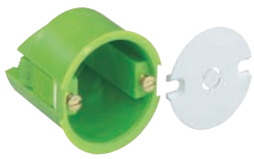
- No special tool necessary
- Sockets with integrated combi-bridge for isolated wiring, no accessories necessary
- Combination of different construction heights possible

- Flush installation as standard, for boards that do not permit stepped face cutting
- Standard socket usable for panel thicknesses 1 to 40 mm

Cavity Wall
Contents

	Protection	Types	Page
	IP30	Cavity wall sockets / boxes	326-328
		General accessories for cavity wall sockets	329-331

HW 040 - Outlet socket



Description	Order No.	Packing Qty
Cavity wall outlet socket, flame resistant,for lighting outlets according to VDE 0100, for panel thicknesses from 1 to 30 mm, screwing distance 27 mm, including white cover		
IP30		
HW 040 Drilled hole Ø 35mm, 40mm deep	924 040 01	150/25

HW 035 – Flat socket

35 mm

Cavity wall flat socket, flame resistant, special socket with small installation depth (35 mm), for thin walls with panel thicknesses from 1 to 20 mm, with moulded patented combi-bridge, device screw spacing 60 mm		
IP30 *		
HW 035 Drilled hole Ø 68mm, 35mm deep	920 035 01	100/10

HW 050 - Socket

50 mm

Cavity wall socket, flame resistant, universal socket for panel thicknesses from 1 to 40 mm with moulded patented combi-bridge and perforation tool, device screw spacing 60 mm		
IP30		
HW 050 Drilled hole Ø 68mm, 50mm deep	920 050 01	100/10
HW 050 WD with closed membrane entries, Drilled hole Ø 68mm, 50mm deep	920 350 01	100/10

HW 065 - Branch socket

65 mm

Cavity wall branch socket, flame resistant, with enlarged connection space, universal socket for panel thicknesses from 1 to 40 mm, with moulded patented combi-bridges and perforation tool, device screw spacing 60 mm		
IP30 *		
HW 065 Drilled hole Ø 68mm, 65mm deep	920 065 01	80/10
HW 065 WD with closed membrane entries, Drilled hole Ø 68mm, 65mm deep	920 365 01	80/10

* in preparation

HW - Ceiling socket
50 mm

Description	Order No.	Packing Qty
Cavity wall lighting connection socket, flame resistant, for panel thicknesses from 0.5 to 33 mm, with M5 brass bush to take a ceiling hook from the accessory range, max. loading on hook 20 N according to DIN VDE 0100		
IP30		
HW DD Drilled hole Ø 68mm, 50mm deep	927 050 01	100/10

HW 070 - Connection socket
58 mm

Cavity wall connection socket, flame resistant, for panel thicknesses from 1 to 30 mm, device screw spacing 67 mm		
IP30 VDE *		
HW 070 Drilled hole Ø 74mm, 58mm deep	925 070 01	60/10

HW 120 - Connection socket
65 mm

Cavity wall connection socket, flame resistant,for panel thicknesses from 7 to 35 mm, for terminals up to 4 mm², including white cover		
IP30		
HW 120 Drilled hole Ø 120mm, 65mm deep	925 120 01	1/1

* in preparation

HW 050 - Double socket

50 mm

Description	Order No.	Packing Qty
Cavity wall double socket, flame resistant, for panel thicknesses from 1 to 40 mm, with moulded patented combi-bridge and perforation tool, device screw spacing 60 mm		
IP30		
HW 050/2 Drilled hole Ø 2 x 68mm, 50mm deep, Combination spacing 71 mm	923 050 01	50/5
HW 050/2 WD with closed membrane entries, Drilled hole Ø 2 x 68mm, 50mm deep, Combination spacing 71 mm	923 350 01	50/5

HWK - Terminal boxes

Cavity wall terminal boxes, flame resistant, for panel thicknesses from 7 to 35 mm, including white cover		
IP30		
HWK 1 107 x 107 x 53 mm, with drilling template for 35 mm drilled holes	928 001 01	10/1
HWK 2 165 x 165 x 72 mm, with drilling template for 68 mm drilled holes	928 002 01	10/1
HWK 3 235 x 205 x 72 mm, with drilling template for 68 mm drilled holes	928 003 01	10/1

HW - Sealing cap

Ø 90 mm

Description	Order No.	Packing Qty
Sealing cap for cavity wall sockets, polystyrene, flame resistant, white		
HW VD-60 for Type HW 035 / HW 050 / HW 065, screw spacing 60 mm	925 101 01	300/10
HW VD-67 for Type HW 070, screw spacing 67 mm	925 100 01	300/10

Cover with ceiling hook

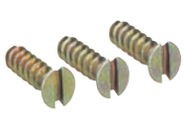
Ø 90 mm

Sealing cap for cavity wall sockets, polystyrene, flame resistant, white, with isolated metal ceiling hooks M5 x 55 mm and fixing screws		
HW 050 DD-VD for ceiling socket HW DD	927 100 01	100/10

DH Ceiling hook

	Shaft length	for type		
Metal ceiling hook, isolated with M5 thread for ceiling sockets				
DH 75-M5	75	971 060 01/971 766 01/971 860 01	979 117 01	600/100
DH 100-M5	100	973 081 01/973 781 01/973 783 01	979 119 01	600/100
DH 115-M5	115	973 312 01/973 713 01/973 712 01	979 121 01	600/100
DH 135-M5	135	970 748 01	979 123 01	600/100

HW Device screws



Additional device screws for fixing of built-in devices in cavity wall sockets			
ES-10	3.1 x 10 mm	979 105 01	400/1
ES-18	3.1 x 18 mm	979 106 01	250/1
ES-25	3.1 x 25 mm	979 107 01	200/1

HW hole cutter

Hole cutter with spring for ejection of PCB, drilling depth up to 30 mm

	diameter/mm	Order No.	Packing Qty
HW LFR-35	Ø 35	925 135 01	12/1
HW LFR-68	Ø 68	925 168 01	12/1
HW LFR-74	Ø 74	925 174 01	12/1
HW LFR-120	Ø 120	925 121 01	1/1

Spare parts for Profi hole cutter

Saw blade for hole cutter type 925 onwards

	diameter/mm		
HW LFR-35/SBL	Ø 35	929 935 01	1/1
HW LFR-68/SBL	Ø 68	929 968 01	1/1
HW LFR-74/SBL	Ø 74	929 969 01	1/1
HW LFR ZB	Centring drill Ø 8	929 964 01	1/1

Profi suitcase hole cutter

Hole cutter set comprising: 1 x Profi cutter 35 mm, 1 x Profi cutter 68 mm, 1 x Profi cutter 74 mm, 1 x drive arbour, 1 x ejector spring, 1 x plastic suitcase

HW LFRP-Sort		925 199 01	6/1

HW Profi hole cutter

Closed HSS bi-metal cutter for long-term use with spring for ejection of PCB, drilling depth up to 40 mm

	diameter/mm		
HW LFRP-35	Ø 35	926 935 01	12/1
HW LFRP-68	Ø 68	926 968 01	12/1
HW LFRP-74	Ø 74	926 974 01	12/1

Spare parts for Profi hole cutter

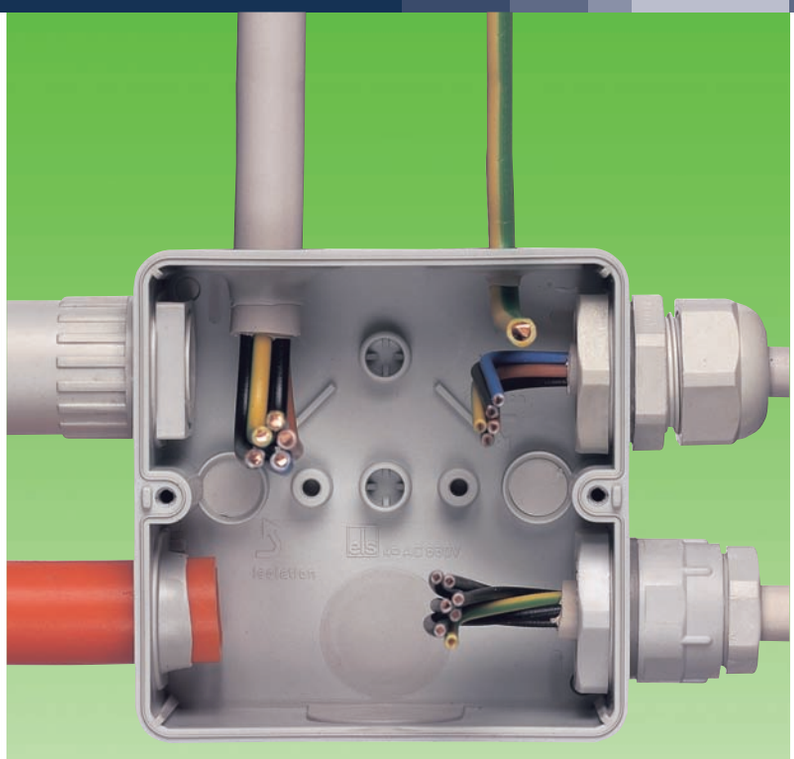
Description		Order No.	Packing Qty
Saw attachment for hole cutter type 926 onwards			
	diameter/mm		
HW LFRP-35/SBL	Ø 35	929 971 01	1/1
HW LFRP-68/SBL	Ø 68	929 972 01	1/1
HW LFRP-ANST	Drive arbour	929 970 01	1/1

RVB Conduit connector

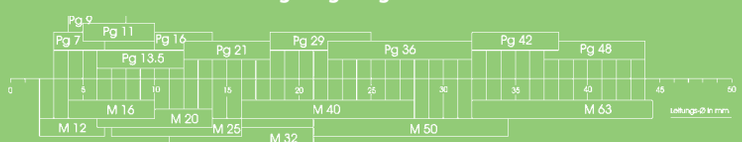
Conduit connector (without conduit) with cleat, grey, for flexible and rigid metric electro-installation conduits		
RVB 20 for pipes M20	970 220 01	100/1
RVB 25 for pipes M25	970 225 01	50/1
RVB 32 for pipes M32	970 232 01	25/1
RVB 40 for pipes M40	970 240 01	25/1

Universal Accessories

IP54 IP55 IP65 IP66 IP68



Sealing ranges Pg screw threads



Sealing ranges metric threads

- **The right solution for every application**
- **Glands or conduits connectors, extension connectors or flat entries with double membrane seals**
- **The system accessories are especially suited for our products**
- **High-quality materials guarantee high security reserves**

Accessories
Content

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Twist nipple

IP54

Description			Order No.	Packing Qty
Twist nippel M_ x 1,5 mm with closed sealing membrane, Polyethylen				
	Thread lenght/mm	**Sealing area/mm**		
WST M16	9	5 - 10	203 416 01	1200/100
WST M20	12	8 - 13.5	203 420 01	600/50
WST M25	12	9 - 16	203 425 01	300/25
WST M32	14	11 - 22	203 432 01	240/20
WST M40	14	17 - 24	203 440 01	120/20
WST M50	18	22 - 35	203 450 01	60/10
WST M63	20	24 - 43	203 463 01	30/5

Twist nipple

IP54

Description			Order No.	Packing Qty
Twist nippel M_ x 1,5 mm with closed sealing membrane, Polyethylen				
	Thread lenght/mm	**Sealing area/mm**		
WST M16/sw	9	5 - 10	203 016 01	1200/100
WST M20/sw	12	8 - 13.5	203 020 01	600/50
WST M25/sw	12	9 - 16	203 025 01	300/25

Twist nipple

IP54

Description			Order No.	Packing Qty
Twist nippel M_ x 1,5 mm with opened sealing membrane, Polyethylen				
	Thread lenght/mm	**Sealing area/mm**		
WNI M16	9	5 - 10	213 416 01	1200/100
WNI M20	12	8 - 13.5	213 420 01	600/50
WNI M25	12	9 - 16	213 425 01	300/25
WNI M32	14	13 - 23	213 432 01	240/20

Twist nipple

IP54

Description			Order No.	Packing Qty
Twist nippel M_ x 1,5 mm with opened sealing membrane, Polyethylen				
	Thread lenght/mm	**Sealing area/mm**		
WNI M16/sw	9	5 - 10	213 016 01	1200/100
WNI M20/sw	12	8 - 13.5	213 020 01	600/50
WNI M25/sw	12	9 - 16	213 025 01	300/25

Sealing plugs

IP54

Sealing plug with closed sealing membrane, polyethelyne, no lock nuts required, f. wall thicknesses 1.5 - 4.5 mm

	Sealing area/mm	Order No.	Packing Qty
VST M16	6 - 10	231 416 01	1200/100
VST M20	8 - 13.5	231 420 01	1200/100
VST M25	9 - 16	231 425 01	600/50
VST M32	13 - 23	231 432 01	600/50
VST M40	17 - 30	231 440 01	300/25

PS-Blanking plug

IP65

Blanking plug M_ x 1.5 mm, polystyrene

	Thread lenght/mm		
VSS PS M16	7	211 416 01	1200/100
VSS PS M20	7.5	211 420 01	1200/100
VSS PS M25	11	211 425 01	600/50
VSS PS M32	11	211 432 01	300/50

PA-Blanking plug

IP65

Blanking plug M_ x 1,5 mm, polyamid

	Thread lenght/mm		
VSS PA M16	7	211 016 01	1200/100
VSS PA M20	7.5	211 020 01	1200/100
VSS PA M25	11	211 025 01	600/50
VSS PA M32	11	211 032 01	300/50

Combi connector

IP54

Adapters with opened sealing membrane, no lock nuts required, f. wall thicknesses 1.5 - 4.5 mm

	Sealing area/mm	Order No.	Packing Qty
AST M16	6 - 10	230 416 01	600/50
AST M20	8 - 13.5	230 420 01	600/50
AST M25	9 - 18.5	230 425 01	300/50
AST M32	13 - 23	230 432 01	150/25
AST M40	17 - 30	230 440 01	120/20

Double membrane seals

IP66

Description

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses/mm	Sealing area/mm	Order No.	Packing Qty
DMS M16	1.5 - 4.5	5 - 9	260 416 01	600/50
DMS M20	1.5 - 4.5	7 - 12	260 420 01	600/50
DMS M25	1.5 - 4.5	9 - 16	260 425 01	600/50
DMS M32	1.5 - 4.5	14 - 21	260 432 01	300/25

Double membrane seals

IP66

Double membrane seals made of elastic plastic with two sealing membranes, closed

	f. wall thicknesses/mm	Sealing area/mm		
DMS M20/sw	1.5 - 4.5	7 - 12	260 020 01	600/50
DMS M25/sw	1.5 - 4.5	9 - 16	260 025 01	600/50
DMS M32/sw	1.5 - 4.5	14 - 21	260 032 01	300/25

Double membrane seals

IP66

Double membrane seals made from elastic plastic with two seal membranes, max. four cable entries for control cables, f. wall thicknesses 1.5 - 4.5 mm

	Sealing area/mm		
DMS M32/4	4 x 3.5 - 6	260 433 01	300/25

Stepped nipple

IP55

Stepped nipple with closed sealing membrane, can be sized in several steps, thermo plastic elastomer, no lock nuts required, f. wall thicknesses 1.5 - 4.5 mm

	Sealing area/mm		
SNI M20	5 - 16	216 420 01	600/100
SNI M25	5 - 21	216 425 01	300/50
SNI M32	13 - 26,5	216 432 01	300/25
SNI M40	13 - 24	216 440 01	120/20

Ventilation seal

IPX4

With labyrinth seal to reduce condensation formation in housing, thermoplastic elastomer, grey, for insert in lower housing side

Description	Order No.	Packing Qty
BST M20 f. wall thicknesses 1.5 - 4.5 mm	262 420 01	600/100

Combi connector

IP54

Combination connector, for connecting enclosures, thermo plastic

Description	Order No.	Packing Qty
KST M32 f. wall thicknesses, 1.5 - 4.0 mm	193 032 01	150/1

Combi set

IP66

Combi set, for side connection of housings with metric openings, complete with lock nuts and intermediate wall seal inserts

	f. wall thicknesses/mm	Order No.	Packing Qty
KS M20	2.0 x 3.0	192 020 01	100/1
KS M25	2.0 x 3.0	192 025 01	50/1
KS M32	2.0 x 3.5	192 032 01	50/1
KS M40	2.0 x 3.5	192 040 01	50/1

Pressure compensation device

IP68

Pressure compensation device with air-permeable and water-tight special membrane foil to reduce condensation formation in housings, polyamide grey, without lock nut

Description	Order No.	Packing Qty
DAE M12 M12 x 1,5 mm, Thread length M10	262 412 01	10/1

Cable glands

IP68

Cable gland with strain relief, polyamide, M_ x 1.5 mm, with lock nut

Description	Thread lenght/mm	Sealing area/mm	Order No.	Packing Qty
KVR M12-MGM	8	2 - 6.5	227 412 01	600/100
KVR M16-MGM	8	4 - 10.0	227 416 01	450/75
KVR M20-MGM	9	6 - 12.0	227 420 01	300/50
KVR M20-GDB/MGM	9	7 - 14.0	227 421 01	180/30
KVR M25-MGM	11	7 - 16.0	227 425 01	150/25
KVR M32-MGM	11	11 - 21.0	227 432 01	60/10
KVR M40-MGM	11	16 - 28.0	227 440 01	30/5
KVR M50-MGM	13	21 - 34.5	227 450 01	30/5
KVR M63-MGM	17	32 - 44.5	227 463 01	50/5

Cable glands

IP68

Cable gland with strain relief, polyamide, M_ x 1.5 mm, without lock nut

	Thread lenght/mm	Sealing area/mm		
KVR M12	8	2 - 6.5	247 412 01	600/100
KVR M16	8	4 - 10.0	247 416 01	450/75
KVR M20	9	6 - 12.0	247 420 01	300/50
KVR M20-GDB	9	7 - 14.0	247 421 01	240/40
KVR M25	11	7 - 16.0	247 425 01	180/30
KVR M32	11	11 - 21.0	247 432 01	90/15
KVR M40	11	16 - 28.0	247 440 01	30/5
KVR M50	13	21 - 34.5	247 450 01	30/5
KVR M63	17	32 - 44.5	247 463 01	50/5

Cable glands

IP68

Cable gland with strain relief, polyamide, M_ x 1.5 mm, with lock nut

	Thread lenght/ mm	Sealing area/ mm		
KVR M20-MGM/sw	9	6 - 12.0	227 020 01	300/50
KVR M20-GDB/MGM/sw	9	7 - 14.0	227 021 01	180/30
KVR M25-MGM/sw	11	7 - 16.0	227 025 01	150/25
KVR M32-MGM/sw	11	11 - 21.0	227 032 01	60/10
KVR M40-MGM/sw	11	16 - 28.0	227 040 01	30/5
KVR M50-MGM/sw	13	21 - 34.5	227 050 01	30/5

Conduit connectors

Description: Conduit connector to take smooth conduits with lock nut, polystyrene

	Insert	for conduits	Order No.	Packing Qty
RST M16	M16	Ø 16	288 416 01	180/30
RST M20	M20	Ø 20	288 420 01	180/30
RST M25	M25	Ø 25	288 425 01	180/30
RST M32	M32	Ø 32	288 432 01	180/30

Lock nut

Lock nut for metric twist nipple and cable glands, polyamide

	Thread	Order No.	Packing Qty
GMU PA M12	M12 x 1.5	208 412 01	2400/100
GMU PA M16	M16 x 1.5	208 416 01	2400/100
GMU PA M20	M20 x 1.5	208 420 01	1200/100
GMU PA M25	M25 x 1.5	208 425 01	600/100
GMU PA M32	M32 x 1.5	208 432 01	300/50
GMU PA M40	M40 x 1.5	208 440 01	300/50
GMU PA M50	M50 x 1.5	208 450 01	150/25
GMU PA M63	M63 x 1.5	208 463 01	150/25

Sealing washers

Sealing washers M_ x 1,5 mm for twist nipple and cable gland with metric thread, polyethylene

	Internal Ø	External Ø	Order No.	Packing Qty
ADR M12	12.0 mm	16.0 mm	249 012 01	100/1
ADR M16	16.0 mm	20.0 mm	249 016 01	100/1
ADR M20	20.4 mm	25.0 mm	249 020 01	100/1
ADR M25	25,0 mm	30.0 mm	249 025 01	100/1
ADR M32	32.0 mm	38.0 mm	249 032 01	50/1
ADR M40	40.0 mm	45.0 mm	249 040 01	50/1
ADR M50	50.0 mm	56.0 mm	249 050 01	25/1
ADR M63	63.0 mm	70.0 mm	249 063 01	25/1

Adapter ring without thread

Adapter ring for attaching metric accessories in housing with PG entries, for example for upgrades, polyethylene

	Thread	Housing Insert	Order No.	Packing Qty
ARI Pg 9	M12	PG9	251 112 01	50/1
ARI Pg 11	M16	PG11	251 216 01	50/1
ARI Pg 16	M16	PG16	251 420 01	50/1
ARI Pg 21	M20	PG21	251 525 01	25/1
ARI Pg 29	M32	PG29	251 632 01	25/1

Technical Appendix

Technical Appendix
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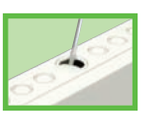	Installation and fitting notes	348-353
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Legend for icons

IP66 IP66	**Protection rating** (IP code) as per DIN EN 60529 (VDE 0470-1)
2 2	Maximum number of **distribution units**
E30-E90 E30-E90	**Maintaining electrical function** as per DIN 4102-12 "E" stands for functional integrity, "30-90" refers to the duration in minutes
FE180 FE180	**Insulation rating** based on VDE 0472-814, IEC 60331 "FE" stands for effect of flame and fire, "180" stands for the duration in minutes
F400 F400	**Function duration** as per DIN EN 12101-3 120 minutes operation at 400°C
	Tested under DIN 4102-2. **Functional integrity F90** (based on E90) for protecting electrical installations as per MLAR 2005. Can be configured individually with type-tested resources.
	Tested under DIN 4102-2. **Fire load insulation F90** (based on I90) for protection of escape and rescue route according to MLAR 2005
10^2 10^2	**Rated cross-section** Maximum permissible wire cross-section that can be connected, as per DIN EN 60998 (VDE 0613) and DIN EN 60999 (VDE 0609)
IK09 IK09	**Degree of protection** (IK code) against mechanical stresses as per DIN EN 50102 (VDE 0470-100)
	Protection class I Equipment with protective earthing as per DIN VDE 0100-410
	Protection class II Equipment with protective insulation as per DIN VDE 0100-410
1000V DC	Maximum **system voltage DC** (direct current) as per product norm
690V AC 690V AC	**Rated voltage AC** (alternating current) Maximum permissible voltage at the junction as per product norm

15 A	**Rated current** Maximum current in continuous operation as per product norm
	The **VDE symbol** stands for tested security of the product with respect to electrical, mechanical, thermal and other dangers.
	Lloyds Register Product approval for use on ships and in the offshore area
	UL approval
eHZ	Suitable for installation of an **electronic domestic supply meter**
halogenfrei	**Halogen-free material**, free of halogens such as fluorine, chlorine and bromine
	Industrial quality

Standard quality **Industrial quality**

Industrial Quality

stands for products designed for special requirements and use in demanding environments. Such categories include installations in wet rooms and protected outdoor areas as well as on combustible surfaces or in locations that are subject to fire hazards. Enclosures used in such environments must all have one thing in common: **Resilience, security, robustness and longevity.**

Products with this symbol indicate at a glance boxes and enclosures for applications with particularly stringent requirements with respect to material that has been tested as flame resistant and self-extinguishing in accordance with VDE 0471/EN60695/UL94 and consequently offers added security. The Abox-i, Abox-i SL, AKi, GTi, TK-PC, WKE and ZKi series, made from glass-fibre-reinforced polycarbonate, satisfy the strictest material requirements.

Common features of all products featuring the IQ symbol:

- **Operating temperature from -35°C to 80°C**
- **Resistant to petrol, petroleum, fats, diesel fuel, turpentine and to a limited extent, acids and alcohol**
- **Protection rating up to IP 68**
- **UV- and weather-resistant**
- **Flame resistant and self-extinguishing 960°C as per VDE 0471/EN60695/ UL94**
- **Impact-resistant and shatterproof under mechanical stress at IK09**
- **Free of halogens, heavy metals, PVC and silicone**

Table 1: Overview of ambient conditions for els-installation systems

Properties / Product group	Ambient temperature : Minimum value	Ambient temperature: Maximum value	Ambient temperature: Average value over 24 h	Max. relative humidity at 40°C	Max. relative humidity at 25°C (short term)	Protection type acc-. to EN 60529 / DIN VDE 0470-1 1)	Impact resistance acc. to DIN EN 50102 / VDE 0470 part 100
Red Range / HP Junction boxes	-25°C	40°C	35°C	50%	-	IP 55	IK 07
Abox Junction boxes	-25°C	40°C	35°C	50%	-	IP 65	IK 07
Abox-i Junction boxes	-35°C	80°C	60°C	50%	-	IP 65	IK 08
WK Junction boxes	-25°C	40°C	35°C	50%	-	IP 54	IK 05
AL / ALR Empty enclosures	-35°C	75°C	60°C	50%	100%	IP 66	IK 09
IBT / IBTronic Concrete installation system	-25°C	40°C	35°C	50%	100%	IP 30	-
AK Distribution board system	-25°C	40°C	35°C	50%	100%	IP 65	IK 07
AKi Distribution board system	-35°C	80°C	60°C	50%	100%	IP 65	IK 08
STV / STG Socket combination	-25°C	40°C	35°C	50%	100%	IP 44 2)	IK 08
GTi Enclosure system	-35°C	75°C	60°C	50%	100%	IP 65	IK 08
TK (Polystyrene) Empty enclosures	-25°C	40°C	35°C	50%	100%	IP 66	IK 07
TK (Polycarbonate) Empty enclosures	-35°C	80°C	60°C	50%	100%	IP 66	IK 08
HW cavity wall installation systems	-25°C	40°C	35°C	50%	100%	IP 30	-

1) For use with suitable connectors or cable glands
2) With closed socket covers

Additional information for outside installation, UV resistance:
Data on protection type and UV-resistance is frequently regarded as the only parameter for installation in the open. For installation outdoors, other factors such as absolute temperature, frequency of temperature change, relative humidity and in particular chemical influences also play an essential role.
As well as the effect from UV action, for installation outdoors, mainly damage from chemical influences should be expected. External areas of filling stations, chemical plants, refuse dumps, compressors, sewage plants etc. in particular should be studied carefully.

All specifications without guarantee. We reserve the right to make changes for the purpose of technical improvement

Table 2: Overview of properties of materials used in -installation systems

Material:	Used in products:	Weak acid	Strong acid	Weak alkali	Strong alkali	Alcohol	Petrol	Benzene	Mineral oil	Diesel	Ammonia	Vegetable oil	Animal oil	Free from halogens, heavy metals, PVC and silicon	Combustion behaviour to VDE 0471/UL 94
Polystyrene, impact resistant	AK-System, Abox, RK / RKA, TK-PS	●	◗	●	●	●	⊗	⊗	◗	⊗	●	◗	◗	yes	650°C / HB
ABS (Acrylnitril-Blutadien-Styrol)	TG ABS	●	◗	●	●	●	⊗	⊗	●	●	⊗	◗	◗	yes	650°C / HB
Polycarbonate	TG PC	●	●	⊗	⊗	●	●	⊗	●	◗	⊗	●	●	yes	960°C / V-2
Polycarbonate, glass-fibre reinforced	Abox-i, STV / STG, GTi-System, AKi, TK-PC	●	●	⊗	⊗	●	●	⊗	●	◗	⊗	●	●	yes	960°C / V-2
Polycarbonate, transparent	Lid AK II-small distribution units STV, lid AKL, AKi, GTi, TK	●	●	⊗	⊗	◗	◗	⊗	●	◗	⊗	●	●	yes	850°C / V-2
Polyethylen	connector, twist nipples, Red range (box lower part)	●	●	●	●	●	◗	⊗	◗	◗	●	●	●	yes	650°C / HB
Polypropylen	HW-Programm, HP	●	◗	●	◗	●	◗	◗	●	◗	●	●	●	yes[1]	960°C / V-2
Polypropylen Copolymer	IBT / IBTronic Red range (lid)	●	◗	●	◗	●	◗	◗	◗	●	●	●	●	yes	650°C / HB
Polyurethan	All types with foamed lid sealing	◗	◗	◗	◗	◗	◗	◗	●	◗	◗	●	●	yes	650°C / —
Aluminium Al 12 Si	AL, ALR	●	◗	●	●	◗	●	⊗	●	●	●	◗	◗	yes	—
Duroplastic	WK-Enclosures	◗	◗	◗	◗	●	●	●	●	●	●	●	●	yes	960°C / V-0
Duroplastic	Fitting terminal blocks of WK series except 4 mm²	⊗	⊗	◗	⊗	●	●	●	●	●	●	●	●	yes	960°C / V-0
Polyamide 6, glass-fibre reinforced	Cable glands IP 68	●	◗	●	●	●	●	◗	●	●	●	◗	◗	yes	750°C / HB/V-2
Thermoplastic elastomer	Double membrane connectors, membrane seal (Abox 025/040, 2K-12)	●	◗	●	◗	●	◗	◗	◗	◗	◗	●	●	yes	750°C / HB

● = resistant ◗ = partially-resistant ⊗ = not resistant

1) The basic materials are halogen-free.
The material only contains a small amount (6%) due to addition of flame-protection agents to the basic material.

Materials used by Spelsberg were subject to a 1000 hour weathering test according to DIN 53 387 by the "Staatliche Prüfungsamt Dortmund" [Federal State Testing Office Dortmund]. In this, the polycarbonate material showed optimum results. The material also passed a test for UV-resistance according to UL 746, without any limitations.
Summary: In principle, the choice of the installation location should be evaluated according to both the type of protection, the climatic conditions, and the occurrence of chemical influences. Details of the material characteristics and chemical resistance can be seen from the tables.

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Table 3.1: Power loss details Permissible power loss P_{zul} in Watts for surface-mounted installation small distributors at a given ambient temperature T_U according to DIN VDE 0660-507. The internal temperature increases in this case to a maximum of 60°C.

	Individually mounted				**Mounted in groups** (all four housings covered by other housings or walls)			
Type	T_U=35°C	T_U=25°C	T_U=15°C	T_U=5°C	T_U=35°C	T_U=25°C	T_U=15°C	T_U=5°C
AK 03	6	9	12	15	4	6	9	11
AK 05	9	14	19	24	7	10	14	18
AK 09	13	19	26	34	9	14	20	25
AK 12	14	22	30	38	11	17	23	29
AK 14	23	35	48	62	18	27	37	48
AK 24	21,5	32,7	44,8	57,4	17	25,9	35,4	45,5
AK 28 / AK 14 + 1	30	46	62	80	24	36	50	64
AK 42 / AK 28 + 1	37	56	76	98	30	45	62	79
AK 56 / AK 42 + 1	44	67	91	117	36	54	74	95
AK 70 / AK 56 + 1	51	77	105	135	41	63	86	110
AKi 03	12,1	15,5	19,1	22,8	8,7	11,2	13,8	16,5
AKi 05	19,1	24,5	30,1	36	13,8	17,7	21,7	26
AKi 09	26,4	33,9	41,7	49,8	19,7	25,3	31,2	37,2
AKi 12	31,3	40,2	49,4	59,1	23,8	30,5	37,5	44,9
AKi 14	48	62	76	91	37	48	59	71
AKi 24	44,8	57,4	70,7	84,5	35,4	45,5	56	66,9
AKi 28 / AKi 14 + 1	62	80	98	117	49	63	78	93
AKi 42 / AKi 28 + 1	76	98	121	144	61	79	97	116
AKi 56 / AKi 42 + 1	91	117	143	171	74	95	116	140
AKi 70 / AKi 56 + 1	105	135	166	198	86	110	136	162

Table 3.2: Power loss details for individually mounted empty enclosures AKL/AKi/GTi Permissible power loss P_{zul} in Watts at a given ambient temperature T_U according to DIN VDE 0660-507 for individually mounted empty enclosures. The internal temperature increases in this case to a maximum of 60°C [80° C for AKi empty enclosures].

	Traverse mounting				**Vertical mounting**			
Type	T_U=35°C	T_U=25°C	T_U=15°C	5°C	T_U=35°C	T_U=25°C	T_U=15°C	T_U=5°C
AKL 1-g/t	16	24	33	42	14	21	29	38
AKL 2-g/t	23	34	47	60	23	34	47	60
AKL 2-g/t-h	28	43	59	76	28	43	59	76
AKL 3-g/t	32	48	66	84	29	44	60	77
AKL 3-g/t-h	39	60	81	105	36	55	75	96
AKL 4-g/t	41	62	84	108	36	54	74	95
AKL 4-g/t-h	50	75	103	132	44	67	91	117
AKi 1-g/t	33	42	52	62	29	38	46	55
AKi 2-g/t	47	60	74	88	47	60	74	88
AKi 2-g/t-h	60	76	93	111	60	76	93	111
AKi 3-g/t	66	84	104	124	60	77	95	114
AKi 3-g/t-h	81	104	128	154	75	96	119	142
AKi 4-g/t	84	108	133	159	74	95	117	140
AKi 4-g/t-h	103	132	163	195	92	118	154	173
GTi 1 (-g)	24	36	49	63	22	33	54	
GTi 1 (-g) w. frame	29	44	60	77	27	41	56	72
GTi 2 (-g)	28	43	59	76	28	43	59	76
GTi 2 (-g) w. frame	34	52	71	92	34	52	71	92
GTi 3 (-g)	37	56	76	98	34	52	71	91
GTi 3 (-g) w. frame	44	67	91	117	41	63	85	110
GTi 4 (-g)	50	76	105	134	44	68	92	119
GTi 4 (-g) w. frame	59	90	123	158	53	80	110	141
GTi 5 (-g)	60	91	124	159	55	84	115	147
GTi 5 (-g) w. frame	69	106	144	185	64	98	134	172

All specifications without guarantee. We reserve the right to make changes for the purpose of technical improvement

Table 3.3: Power loss details for empty enclosures AKL/AKi/GTi mounted in groups
Permissible power loss P_{zul} in Watts at a given ambient temperature T_U according to DIN VDE 660-507 for empty enclosures mounted in groups. The internal temperature increases in this case to a maximum of 60°C [80° C for AKi empty enclosures].

	Traverse mounting				Vertical mounting			
Type	**TU=35°C**	**T_U=25°C**	**TU=15°C**	**5°C**	**TU=35°C**	**T_U=25°C**	**TU=15°C**	**TU=5°C**
AKL 1-g/t	12	18	24	31	10	16	22	28
AKL 2-g/t	18	27	37	47	18	27	37	47
AKL 2-g/t-h	21	32	43	56	21	32	43	56
AKL 3-g/t	25	39	53	68	23	35	48	62
AKL 3-g/t-h	30	45	61	79	27	41	57	73
AKL 4-g/t	33	50	69	88	29	44	60	77
AKL 4-g/t-h	38	58	79	101	34	51	70	90
AKi 1-g/t	24	31	38	47	22	28	34	41
AKi 2-g/t	36	47	58	69	36	47	58	69
AKi 2-g/t-h	43	56	68	82	43	56	68	82
AKi 3-g/t	53	68	83	100	48	62	76	91
AKi 3-g/t-h	61	78	97	115	56	72	89	107
AKi 4-g/t	69	88	108	130	60	77	95	114
AKi 4-g/t-h	79	101	124	148	70	90	110	132
GTi 1 (-g)	36	46	57	68	33	43	53	63
GTi 1 (-g) w. frame	42	54	66	79	39	50	62	74
GTi 2 (-g)	45	57	71	84	45	57	71	84
GTi 2 (-g) w. frame	52	66	81	97	52	66	81	97
GTi 3 (-g)	59	76	93	112	55	71	87	104
GTi 3 (-g) w. frame	67	86	106	127	63	81	99	119
GTi 4 (-g)	83	106	130	156	73	93	115	137
GTi 4 (-g) w. frame	93	119	146	175	82	106	130	156
GTi 5 (-g)	100	129	159	190	93	119	147	175
GTi 5 (-g) w. frame	111	143	176	210	103	133	163	195

All specifications without guarantee. We reserve the right to make changes for the purpose of technical improvement

1. Mounting of junction boxes on wood and other combustible materials

Example: entire wooden buildings, buildings with wooden construction elements, wooden construction materials, cavity walls constructed from flammable materials, however also synthetic heat and sound insulation materials

According to the **VdS directive 2003**, electrical connections and conductor connections may **only** be installed, in the case of mounting on flammable supports, with clamps **in suitable electrical installation enclosures and boxes, as outlined by VDE 0606**. The reason for this are the enclosures closed towards the mounting surface and the high safety requirements of DIN VDE 0606 with respect to fire resistance.
All products and els installation systems meet these requirements.

2. Condensation water in sealed enclosures

How does condensation water occur?
The better the seal on operating media, e.g. connection sockets and distribution housings, the earlier condensation water will form. This applies in particular at locations where changing temperatures are expected. The degree of water saturation in the air (relative humidity) is temperature-dependent. If the temperature outside the enclosure alters, the relative humidity also alters. In tightly-sealed enclosures, excess relative humidity cannot escape and condensation water occurs which is deposited in the enclosure. The reverse occurs if inside the enclosure temperature changes occur due to heat loss e.g. devices under different loads over time. If this temperature/air humidity change is frequent, a considerable quantity of water can collect in the interior giving the impression that an otherwise sealed enclosure is not sealed. Damage occurs.

What do the safety regulations specify?
According to DIN VDE 0100-520 “Installation of heavy current systems with nominal voltages up to 1000 V, Part 5: Selection and installation of electrical operating media, chapter 52: Cable and line systems (equipment)”, precautions must be taken for water drainage if water collects or water condensation can occur within cables and line systems.

What does Spelsberg offer?
els installation systems from various products group have knock-out condensation water openings (diameter 5 mm/6 x 6 mm) on the enclosure rear or side walls. These should be opened so that when installed, they are on the underside of the enclosure so any condensation water can drain. This applies only under condition where no increased requirements for contact or external body protection are imposed (> IP 2X or dust-tight). If requirements for contact protection or foreign body protection are also imposed on the enclosure e.g. IP 3X, we recommend the use of an ELS ventilation seal. These are available in sizes M20/Pg 13.5 and Pg 16, are fitted in the corresponding cable inlet openings on the underside and offer splash water protection up to IP X4 when properly installed.

General Notes:
Opening the holes or fitting vent seals frequently means that no condensation water will occur as the temperature and relative humidity change outside and inside the housing at the same time.
In principle, installation sites with wide temperature differences should be avoided.

3. Halogen-free installation material

At present there is no DIN VDE regulation for the mandatory use of halogen-free installation material.
However, because of the reduction in toxic materials released in case of fire, DIN VDE 0108 provides for some deviations (simplifications) from the prescribed installation methods. These deviations are of a highly specialised nature, and are therefore not described here. However, the Building Regulations of the various Federal States, and other regulations for installations in public areas (escape routes, lifts), increasingly require the use of halogen-free installation systems. In these situations, the use of high-grade halogen-free material is definitely advisable. The reason for this is the improved level of protection of people and materials in case of fire, since halogen-free materials develop less smoke in fires. The proportion of toxic combustion gases is reduced to a minimum, and no corrosive gases are released which react with extinguishing agents to form sulphuric acid. Material damage to buildings and their contents is reduced.

For these areas, Spelsberg offers completely halogen-free installation systems.
(except for HW, KD)

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Installation and fitting notes

4. Protection classes of electrical materials

According to VDE 0140, materials are classified into protective categories according to their construction.
This classification is not for the purpose of describing the safety level of the material, but is simply a statement of the measure with which this safety level can be achieved.

Protection Class I materials are those in which protection against electric shock is not just provided by the basic insulation. Additional protection is provided by the fact that parts are connected to the earth of the fixed installation, so that in case of failure of the basic insulation, the parts cannot remain at a high potential.

Protection Class II materials are those in which protection against electric shock is not just provided by the basic insulation, but also by additional safety measures such as double insulation or reinforced insulation. There is no possibility of connecting an earth lead.

Protection Class III materials are those in which protection against electric shock is based on a protective low voltage (SELV), and in which, higher voltages than the protective low voltage cannot be produced.

All empty housings comply with Class II protection requirements. Metal housings, or metal-coated housings are intended for connection of an earth lead, and comply with Class I protection requirements.

5. Protection types according to EN 60529/DIN VDE 0470-1

First code figure			Second code figure - Water protection								
	Contact protection	**Foreign body protection**	**IP X0** No protection	**IP X1** Protection against vertically falling dripping water	**IP X2** Protection against dripping water if housing is angled up to 15°	**IP X3** Protection against spray water from all directions even if angled up to 60° from the vertical	**IP X4** Protection against splash water from all directions	**IP X5** Protection against jet water from all directions	**IP X6** Protection against heavy jet water from all directions	**IP X7** Protection against temporary immersion in water	**IP X8** Protection against effects on long-term immersion in water
IP 0X	No contact protection	No protection against solid foreign bodies	IP 00								
IP 1X	Protection against large area contact (back of hand)	Protection against solid foreign bodies >50 mm Ø	IP 10	IP 11	IP 12						
IP 2X	Protection against contact with one finger	Protection against solid foreign bodies >12.5 mm Ø	IP 20	IP 21	IP 22	IP 23					
IP 3X	Protection against contact with tools, wires etc. >2.5 mm Ø	Protection against solid foreign bodies >2.5 mm	IP 30	IP 31	IP 32	IP 33	IP 34				
IP 4X	Protection against contact with tools, wires etc. >1 mm Ø	Protection against solid foreign bodies >1 mm	IP 40	IP 41	IP 42	IP 43	IP 44				
IP 5X	Protection against contact with tools, wires etc. >1 mm Ø	Protection against disruptive dust deposits in the inside	IP 50				IP 54	IP 55			
IP 6X	Protection against contact with tools, wires etc. >1 mm Ø	No penetration of dust	IP 60					IP 65	IP 66	IP 67	IP 68

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6. Pg conversion to metric values for enclosure apertures and sealing fittings

Market-standard maximum width across flats for cable glands according to EN 50262:

- The table serves to assist orientation in determining hole and wall distances/spaces for nesting purposes in enclosures.

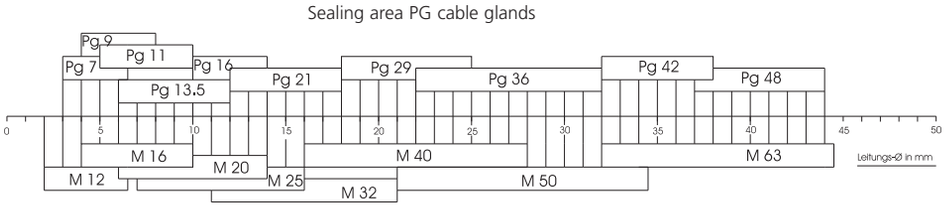
- Our enclosure types are constructed in the following dimensions. They are particularly suited for enclosure installation using standard cable glands with measurements that conform to the table values.

Advantages for Spelsberg Clients:

Because the installation supports and sealing fittings of many "els" brand products are series accessories, the conversion is easy for the client. Along with purchase, the client always receives the corresponding metric accessory parts. The clear identification of sealing elements and enclosures additionally facilitates the process.

Thread	max. width across flats (mm)	max. corner measure (mm)
M12	16	18
M16	21	23
M20	25	28
M25	30	33
M32	37	41
M40	46	51
M50	56	61
M63	69	75
M75	82	92

Sealing area PG cable glands



Sealing area metric cable glands

7. Fire resistance of els installation systems

According to the valid MLAR, the statement of fire resistance for installation in corridors and escape routs is no longer necessary.

8. Protection level agains mechanical loads, IK Code

According to VDE 0470, part 100 "Protection types from enclosures for electrical operating media (equipment) against external mechanical damage (IK Code)", the degree of protection provided by an enclosure against mechanical damage is indicated by an IK Code. The IK Codes allocated to the individual stress energy values are given in the table below.

IK-Code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Stress energie in Joule	*)	0.15	0.2	0.35	0.5	0.7	1	2	5	10	20
*) Not covered according to the present standard.											

The data on IK values of individual ELS products is given in table 1.

9. Installation of cables in concrete

The commonly-used NYM sheathed cables may be installed in concrete, with the exception of concrete which is stamped or vibrated during pouring. According to VDE 0276, high-voltage NYY cable may, however, be used without restriction in concrete. However, in comparison with NYM, a considerably larger bending radius must be employed.

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External diameters of average cable cross sections of different manufacturers

Cable cross section mm²	NYM mm ø	NYY NYCWY" mm ø	"NYCY mm ø
1 x 4	8	9	-
1 x 6	8,5	10	-
1 x 10	9,5	10,5	-
1 x 16	11	12	-
1 x 25	-	14	-
1 x 35	-	15	-
1 x 50	-	16,5	-
1 x 70	-	18	-
1 x 95	-	20	-
1 x 120	-	21	-
1 x 150	-	23	-
1 x 185	-	25	-
1 x 240	-	28	-
1 x 300	-	30	-
2 x 1,5	10	12	13
2 x 2,5	11	13	14
2 x 4	-	15	16
2 x 6	-	16	17
2 x 10	-	18	18
2 x 16	-	20	21
2 x 25	-	-	-
2 x 35	-	-	-
3 x 1,5	10,5	12,5	13
3 x 2,5	11	13	14
3 x 4	13	16	16
3 x 6	15	17	17
3 x 10	18	19	18
3 x 16	20	21	21
3 x 25	-	25	-
3 x 35	-	-	-
3 x 50	-	-	-
3 x 70	-	-	-
3 x 95	-	-	-
3 x 120	-	-	-
3 x 150	-	-	-
3 x 185	-	-	-
3 x 240	-	-	-
3 x 25/16	-	26,5	27
3 x 35/35	-	28	27
3 x 50/25	-	32	32
3 x 70/35	-	32 - 35	36
3 x 95/50	-	37 - 41	40
3 x 120/70	-	42	43
3 x 150/70	-	46	47
3 x 185/95	-	52	48 - 54
3 x 240/120	-	57 - 62	60
3 x 300/150	-	63 - 68	-

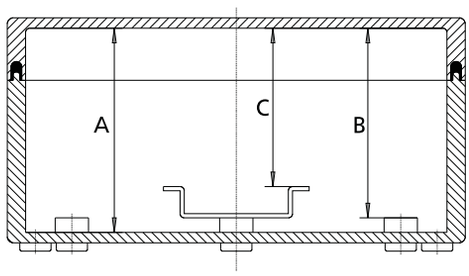
Cable cross section mm²	NYM mm ø	NYY NYCWY" mm ø	"NYCY mm ø
4 x 1,5	11	13,5	14
4 x 2,5	12,5	14,5	15
4 x 4	14,5	17,5	17
4 x 6	16,5	18	18
4 x 10	18,5	20	20
4 x 16	23,5	23	23
4 x 25	28,5	28	28
4 x 35	32	26 - 30	29
4 x 50	-	30 - 33	34
4 x 70	-	34 - 40	37
4 x 95	-	38 - 44	42
4 x 120	-	42 - 58	47
4 x 150	-	46 - 52	52
4 x 185	-	53 - 58	60
4 x 240	-	59 - 71	70
4 x 25/16	-	-	30
4 x 35/16	-	-	30
4 x 50/25	-	-	36,5
4 x 70/35	-	-	40
4 x 95/50	-	-	44,5
4 x 120/70	-	-	48,5
4 x 150/70	-	-	53
4 x 185/95	-	-	-
4 x 240/120	-	-	-
5 x 1,5	12	15	15
5 x 2,5	13,5	16	17
5 x 4	15,5	16,5	18
5 x 6	18	19	20
5 x 10	20	21	-
5 x 16	26	24	-
5 x 25	31,5	-	-
7 x 1,5	13	16	-
7 x 2,5	14,5	16,5	-
19 x 1,5	-	22	-
24 x 1,5	-	25	-

	IP 68 Cable gland Sealing area	IP 66 Double membrane spout Sealing area	IP 55 Twist nipple Sealing area	IP 54 Sealing plug Sealing area
M12	2 - 6,5 mm	-	-	-
M16	4 - 10 mm	5-9 mm	-	6 - 10 mm
M20	6 - 12 mm 7 - 14 mm	7 - 12 mm	5 - 16 mm	8 - 13,5 mm
M25	7 - 16 mm	9 - 16 mm	5 - 21 mm	9 - 18,5 mm
M32	11 - 21 mm	14 - 21 mm	13 - 26,5 mm	13 - 23 mm
M40	16 - 28 mm	-	13 - 24 mm	17 - 30 mm
M50	21 - 34,5 mm	-	-	-
M63	32 - 44,5 mm	-	-	-

9. Installation dimensions of the els installation systems

Clear installation heights of important series of articles in mm

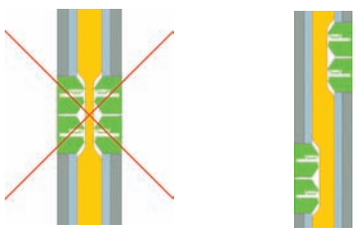
Article series	A	B	C
Abox / Abox-i			
Abox / Abox-i 025	42	36	-
Abox / Abox-i 040	45	39	34 (TS 15)
Abox / Abox-i 060 / Abox SL 2,5²	49	49	41.5
Abox / Abox-i 100 / Abox SL 6²	60	60	52.5
Abox / Abox-i 160 / Abox SL 10²	71	71	63.5
Abox / Abox-i 350, Abox HA / Abox SL 2,5²	92	92	84.5
Abox 700	117.5	114	106.5
Abox-i 700/1500/2400	146	-	-
Terminal block cases			
RKK-series	45	45	40
RK 4/07	53	53	45.5
RK 4/12	63	63	55.5
RK 4/18, 4/25, 4/34	81	75	67.5
RK 4/50, RK 4/100	103	97	75.5
RKA-series / AKi-R	117.5	114	90
AK- / AKi series			
AK 03 / AKi 03	85	79	71.5
AK 05 up to 24 / AKi 05 up to 24	111	105	98.5
AK 14 up to AK 70 / AKi 14-70	117.5	114	96
AKL- / AKi Empty enclosures			
AKL 1 up to 4 / AKi 1 up to 4	117.5	114	106.5
AKL 2-h up to 4-h / AKi 2-h up to 4-h	194.5	191	183.5
AKZ- / AKi-Z Meter housings			
AKZ- / AKi-Z Counter space	194.5	191	183.5
AKZ- / AKi-Z Connection space	117.5	114	90



10. Installation of cavity wall boxes in fire protection walls

The installation of VDE-authorised hollow-wall boxes is permitted according to DIN 4102 under the following conditions:

- Cavity wall boxes may not be installed opposite to each other.
- The insulating layer behind the box, which belongs to the wall construction, may only be crushed to a minimum of 30 mm. NB: Cavity wall boxes do not have their own function-maintaining.



11. PE/N isolating terminals

DIN VDE 0100-718 requires that junction boxes of the power supply are so constructed, that a simple measurement of the insulation resistance of all conductors with regard to Earth is possible for each individual circuit leaving the box.
For circuits with a conductor cross-section less than 10 mm², this measurement must be possible without disconnecting the neutral conductor, e.g. by the installation of neutral lead isolating terminals.
Particularly suitable: -Small Junction Boxes of the types AK Plus and AKi Plus.
Due to the extended connecting space, there is sufficient space for fitting proprietary in-line isolating terminals.

All specifications without guarantee. We reserve the right to make changes for the purpose of technical improvement

Table 4: Overview of the installation areas and the recommended els installation systems

Product group / Installation area	**Red Range / HP** Junction boxes	**Abox** Junction boxes	**Abox-i** Junction boxes	**S-Box** Junction boxes	**WK** Junction boxes	**RK / RKA** Terminal block housings	**AK** Housing system	**AKi** Housing system	**GTi** Housing system	**STV / STG** Socket combination[1)]	**HW** Cavity wall installation system	**IBT / IBTronic** Concrete installation system
Protection against direct contact (basic protection) according to DIN VDE 0100-410	●	●	●	●	●	●	●	●	●	●	●	●
Rooms with bath tubs or showers according to DIN VDE 0100-701	●	●	●	●	●	●	●	●	●	●	●	●
● Damp and wet areas and rooms ▲ Protected outdoor installations ■ Unprotected outdoor installations according to DIN VDE 0100-737	● ▲	● ▲	● ▲ ■	● ▲ ■	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲		
Covered swimming pools and outdoor swimming pools according to DIN VDE 0100-702			●	●		●		●	●	●		
Agricultural and horticultural estates according to DIN VDE 0100-705		●	●	●	●	●	●	●	●	●		
Electrical equipment for caravans and motor caravans according to DIN VDE 0100-721. Electrical equipment for pleasure craft or houseboat marinas and similar areas according to DIN VDE 0100-709			●	●				●	●	●	●	
Areas endangered by fire according to DIN VDE 0100-482			●	●		●	●	●	●	●	●	●
Electrical equipment in furniture according to DIN 57100 Part 724 (VDE 0100 Part 724)											●	
Electrical equipment at camping and caravan sites and similar areas according to DIN VDE 0100-708. Temporary electrical equipment for example at fairgrounds, amusement parks and for circuses according to DIN VDE 0100-740	●	●	●	●		●	●	●	●	●		

1) For closed socket covers

Information on KD - Channel installation system:

The application areas are dependent on the respective cable channels used.

Additional information for outdoor installations, UV resistance:

Statements regarding the protection rating and UV resistance are often seen as the only criteria for outdoor installation. However, other factors such as temperature, frequency of temperature change, air humidity and particularly chemical influences also play a significant role for outdoor installations. In addition to the effects of UV, damage due to chemicals can primarily be expected in the case of outdoor installations. From the outset, outdoor areas of filling stations, chemical works, waste disposal sites, compressors, sewage works etc, should be examined particularly critically.

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Protection against direct contact (basic protection) under normal circumstances according to DIN VDE 0100-410

Examples: Living rooms, hotel rooms, attics, heated and ventilated cellars

Important protection requirements:

- Active components (AC voltages greater than 50 V and DC voltages greater than 120 V) must be enclosed, or mounted behind covers, which at the least conform to protection type IP2X.
- Horizontal upper surfaces of covers or enclosures which are easily accessible must at least conform to protection type IP4X.
- Covers and enclosures must be securely fixed and have sufficient strength and durability to maintain the required protection level and sufficient distance from the active components under the conditions and external influences to be expected under normal operation. The covers must only be able to be removed using tools.

All products conform to these requirements.

Rooms with bath tubs or showers according to DIN VDE 0100-701

Important protection requirements:

• The following switchgear, controllers and installation equipment are permitted in the areas:

Area 0 - None.
Area 1 - Junction and terminal boxes for the power supply of devices authorised in Areas 0 and 1 under 701.55;
- Installation equipment, including sockets, which are protected by means of low voltage in SELV or PELV circuits, with a nominal voltage of up to AC 25 V or DC 60 V. The power source must be set up outside of Areas 0 and 1.

Area 2 - Installation equipment, excluding sockets;
- Installation equipment, including sockets, which are protected by low voltage in SELV or PELV circuits. The power source must be set up outside of Areas 0 and 1;
- Shaver socket units according to DIN EN 61558-2-5 (VDE 0570-2-5);
- Installation equipment, including sockets for signal and communication technology components, assuming such components are protected by low voltage in SELV or PELV circuits.

• Electrical equipment must comply with the following protection rating as a minimum:
in area 0: **IPX7**;
in area 1: **IPX4**;
in area 2: **IPX4**.

This requirement does not apply for shaver socket units according to DIN EN 61558-2-5 (VDE 0570-2-5), which are set up in Area 2 and where direct spraying during showering is unlikely.
Electrical equipment that is subject to **jets of water**, for example for cleaning purposes in public baths, must comply with **protection rating IPX5** as a minimum in **Areas 1 and 2**.

Particularly suitable: Abox-i, AKi and GTi housing system

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Electrical equipment at camping and caravan sites and similar areas according to DIN VDE 0100-708
Temporary electrical equipment, for example at fairgrounds, amusement parks and for circuses according to DIN VDE 0100-740

Important protection requirements at caravan and camping sites and similar areas:

- Use of Protection Class 0 components is excluded.
- Equipment at a caravan park must have a protection rating of at least IPX4 in order to protect it against spraywater.

Comment: If the electrical equipment is sprayed with high pressure cleaners etc. during washing, a protection rating of at least IPX5 for the equipment itself or through additional housing must be considered.

- Equipment that is set up at a caravan/camping site must have a protection rating of at least IP4X in order to ensure protection against penetration of very small objects.
- Equipment that is set up at caravan sites must be protected against mechanical stresses.

The required protection must be achieved using one or more of the following measures:

- The position or location of the equipment must be selected such as to avoid damage by any reasonable, predictable stress;
- Provision of a local or general mechanical protection;
- Electrical equipment must be set up in compliance with minimum protection requirements against external mechanical stress IK07.

Important protection requirements for temporary electrical equipment:

- The rated supply voltage must not exceed AC 230/400 V or DC 440 V.
- Regardless of the number of power sources for supplying power, outer conductors and neutral conductors of the various power sources must not be connected to one another after the supply point. The instructions of the distribution network operator (VNB) must be observed.
- All end circuits for light, sockets with rated current up to 32 A and movable equipment, which are connected via a flexible cable or leads with a current carrying capacity of up to 32 A, must be protected additionally by fault-current circuit breakers (RCDs) with a trip current of 30 mA.
- Every separate electrical system and every distribution circuit that supplies an outdoor system must have its own, easily accessible and readily identifiable disconnect facility.
- Switchgear and controllers must only be accommodated in boxes that can only be opened with keys or tools. Exceptions here are those parts that are provided for operation by non-electrical professionals.
- Electrical equipment must comply with protection rating IP44 as a minimum.
- Every electrical system must have a separate disconnect, activation and excess current protection facility, which must be easily accessible.
- Housing that contains rectifiers and transformers must be adequately ventilated and the openings must not be covered during operation.

Particularly suitable: Red range, Abox, Abox-i, S-Box, RK, RKA, AK, AKi, GTi and STV series.

Use of fault-current circuit breakers (RCDs) according to DIN VDE 0100-410

The DIN VDE 0100-410 standard requires additional internal protection by way of RCDs with trip currents not less than 30 mA for [wall] sockets up to and including 20 A which are intended for general use by the general public. According to a footnote, exceptions apply only to sockets that:

- are monitored by electrical professionals or persons schooled in technical electrical matters (this applies, for example, to industrial sites whose electrical production apparatus and machines are continuously monitored by means of technical measurement and are maintained by electrical professionals so as to ensure that damage can be quickly detected and rectified) or
- are installed for connection to a very specific piece of equipment (e.g. a large freezer).

This additional protection is generally required for exterior final circuits up to and including 32 A used for portable equipment. In a footnote to the fulfilling of these requirements, the standard recommends the use of FI/LS (fault-current circuit breaker) switches in accordance with DIN EN 61009-2-1 (VDE 0664-21) in each final circuit. The transitional period of the previous edition ended on February 01, 2009.

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Damp and wet environments and rooms and outdoor installations according to DIN VDE 0100-737

Examples of damp and wet rooms: Catering kitchens, unheated, unventilated cellars, laundries, refrigerated rooms, beer cellars and wine cellars, greenhouses, launderettes
Examples of unprotected outdoor installations: Streets, paths and squares, yards, driveways and gardens, on building sites, railway platforms, loading bays and roofs, on cranes, building machinery, filling stations and exterior walls
Examples of protected outdoor installations: Equipment on covered railway platforms, in gateways and covered filling stations, on houses with adequate roof overhang, with additional weather protection.

Damp and wet areas and rooms

- In damp and wet areas the electrical equipment must at least be protected against dripping water (protection rating IPX1).
- In areas and rooms where water jets are used and electrical equipment is generally not sprayed directly for cleaning purposes, the equipment must be at least protected from jets of water (protection rating IPX4).

  In areas and rooms where water jets are used, equipment which is directly subject to the water jet must have an appropriate protection rating against the water jet or a suitable additional protection which does not impair the operation of the protected equipment.

Comment: The level of protection offered by IPX5 does not permit cleaning of the equipment with pressurised water, e.g. spraying with a hose or a pressure washer.

- Metal parts subject to corrosive vapours or steam must be protected against corrosion, for example using protective coating or corrosion-proof materials.

Outdoor installations

- Protected outdoor equipment must at least be protected against dripping water (protection rating IP X1).
- Unprotected outdoor equipment must at least be protected against jet water (protection rating IP X3).
- The requirements for protection by automatic disconnection of the power supply for

  - outdoor sockets and

  - sockets for which the occasional supply of portable equipment outdoors may be expected, is contained in DIN VDE 0100-470 (VDE 0100 Part 470):1996-02, Section 471.2.3.

Taking account of the following information, the following installation series are suitable for the protected area:
Red range, HP, Abox, Abox-i, WK, RK/RKA, AK, AKi, GTi and STV/STG
In protected outdoor area: Abox-i, AKi, GTi, TK PC, TG PC, AL

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Special information must be noted for outdoor installations:

Chemical influences
For installations in areas with increased levels of hazardous substances in the air, the suitability may be correspondingly reduced. Information is available in Table "Material characteristics".

Condensation
Condensation buildup must be assumed in the case of protected and unprotected outdoor installations.

Power loss / direct solar radiation
Electrical installed appliances generate power loss during operation. The enclosures manufactured by Spelsberg are tested during the approval test for power loss installed in the enclosure.
Detailed tables on this topic are provided in the catalogues taking account of the ambient temperature and the installation type.

Direct solar radiation can increase the internal temperature to impermissible values.
The functions of electrical equipment may then no longer be guaranteed.
The permitted power loss details and ambient temperatures can be found in the tables from Page 151.

The materials used by Spelsberg were subjected to a weathering test according to DIN 53 387 (replaced by DIN EN ISO 4892-2), a 1000 hour test at the "State Examination Office in Dortmund".
The material polycarbonate offered the best result here.
Tests for UV resilience under UL 746 C were likewise passed by this material without restrictions.

Installation locations and types
The installations must be implemented in accordance with the current construction and safety conditions.

Note that physical limit values of the housing and the installed components may be reached as a result of the factors mentioned above, which may have a negative impact on the operation and life expectancy of the housing.

Recommendation:

Installations only in protected outdoor area!

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Areas endangered by fire, fire protection due to particular risks or dangers according to VDE 0100, Part 482

Examples: Workrooms, dry rooms, storerooms, storage areas for hay, straw, jute or flax as well as similar outdoor locations, e.g. paper, textile or wood processing areas.

- Electrical equipment must be suitable for use in areas endangered by fire. Their coverings must comply at least with protection rating IP5X when possibly covered with dust.
  Where dust is not to be expected, the equipment must at least fulfil the respective national regulations.
  Cables and conductors which cross areas endangered by fire, but which are not intended for electrical supply to these areas must fulfil the following conditions:
  - They may not have any connection points or terminals in these areas, or
  - The connecting points must have coverings which conform to the corresponding standards of fire safety, e.g. the special requirements for connecting boxes according to E DIN EN 60670-1 (VDE 0606 Part 1).

- In principle, the general regulations for cables and conductor systems (equipment) are valid. If cables and conductors are not completely protected from fire by non-inflammable materials such as plaster or concrete, or other materials, the cables and conductors must have non-inflammable characteristics according to DIN EN 50265-2 (VDE 0482 Part 265-2).

- Electrical equipment installed in cavity walls must conform to the testing requirements of the applicable standards.
  The following standards apply:
  - Junction and terminal boxes according to DIN VDE 0606-1 (VDE 0606 Part 1).
  - Distributors according to DIN VDE 0603 (VDE 0603) or DIN EN 60439 (VDE 0660).
  This equipment may only be used if it is identified by the symbol (DIN 30600, Reg. No. 1656).

Particularly suitable: Abox-i, HW cavity wall socket series, STV series and AKi and GTi empty enclosures.

Note:

Cables and conductors with improved characteristics in case of fire, according to DIN EN 50266 (VDE 0482 Part 266), are recommended in areas where the risk of flame spreading is high, for example in long vertical conduits or cable bundles.

Many standardised halogen-free cables and conductors with improved fire characteristics are now available. These halogen-free conductors for use in the applications stated above are recommended by the "Verband der Sachversicherer" (VdS) [Association of Property Insurers] as well as in UK 221.8 "Laying of cables and conductors" by the Germen Commission for Electrical Engineering, in DIN and VDE.

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Electrical equipment in furniture and related fittings according to DIN 57100 Part 724 (VDE 0100 Part 724)

Important protection requirements:

- The conductors must be either fixed or led through suitable cavity spaces. With fixed laying, the conductor must be relieved of tension at the point where it enters the furnishing. With laying in hollow spaces within the furnishing, the conductors must be protected against tension or compression at the point where they enter the furnishing.
- Junction and terminal boxes, installation small distributors and similar for installation below surfaces must conform to the testing regulations for hollow-wall boxes according to DIN 57606/ VDE 0606. They must be labelled H
- Electrical installation equipment for mounting below surface level may not be fixed into cavity wall boxes by the use of claws.
- Cavity wall boxes and distributor boxes must be installed such that they are protected from mechanical damage. Comment: This can be achieved for example by fitting them in inaccessible spaces, in recesses, or by means of additional mechanical protection.

Particularly suitable: The cavity wall boxes programme

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Agricultural and horticultural estates according to DIN VDE 0100-705

Examples: Stables, hen houses, pig-fattening units, incubation rooms and hatcheries, rooms for fodder preparation, hay-lofts, storage areas for straw, fertilizer and cereals.

Important protection requirements:

The following shut-off equipment should be provided in circuits, regardless of which systems, depending on the type of ground connection:

- In end circuits with sockets, a fault-current circuit breaker (RCD) with a trip current = 30 mA
- In all other circuits, excluding those that supply distributors, fault-current circuit breakers (RCDs) with a trip current = 300 mA.

Fault-current circuit breakers (RCD) with a trip current = 300 mA must be set up for fire protection.
The fault-current circuit breakers (RCDs) must disconnect all active conductors. In cases where improved maintenance of supply is required, these fault-current circuit breakers (RCDs) must comply with design type S or disconnect with a time delay.

In areas where there is a risk of fire, conductors for low-voltage circuits must either be supplied with covers or coverings with protection rating IPXXD or IP4X or be supplied with covering made from insulating material in addition to their basic protection insulation.

Particularly suitable: STV, Abox, Abox-i, AK, AKi and GTi housing system.

Note: For installations in areas with increased levels of air contamination, the suitability may be correspondingly limited. Information is available in Table 2 (Material characteristics).

Use of electrical installations for caravans and motor caravans according to DIN VDE 0100-721 Electrical installations for pleasure craft or houseboat marinas and similar areas according to DIN VDE 0100-709

Important protection requirements for electrical installations for caravans and motor caravans

- The rated AC voltage supply of the caravan installations must not exceed 230 V for single-phase AC or 400 V for three-phase AC. The rated DC voltage supply of the caravan installations must not exceed 48V.
- Where fittings are located in an area where humidity has to be assumed, the fittings must be constructed or covered such that a protection rating of not less than IP44 is guaranteed.

Important protection requirements for electrical installations for marinas and similar areas

- Equipment that is set up in marinas at or via a mooring, landing, pier or pontoon depending on the possible external influences must comply as follows:
  - Spraywater: IPX4
  - Jet water: IPX5
  - Waves: IPX6
- Equipment that is set up at or via a mooring, landing, pier or pontoon must comply with a protection rating of IP4X as a minimum in order to prevent infiltration by very small foreign bodies.
- Equipment that is set up at or via a mooring, landing, pier or pontoon must be suitable for occurrence of corrosive atmospheres or contaminated substances (AF2). AF3 must be applied where hydrocarbons may occur.
- Equipment that is set up at or via a mooring, landing, pier or pontoon must be protected against mechanical damage (average mechanical damage AG2).

  The required protection must be achieved through fulfilment of one or more of the following requirements:
  - The position or location of the equipment must be selected such as to avoid damage by any reasonable, predictable stress;
  - Provision of a local or general mechanical protection;
  - Electrical equipment must be set up in compliance with minimum protection requirements against external mechanical stress IK07.

Particularly suitable after the supply point:

Red range, Abox, Abox-i, S-Box, RK, RKA, AK, AKi, GTi, STV, STG and cavity wall socket series.

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Swimming pool covers and other covers according to DIN VDE 0100-702

- When SELV is used, protection against direct touching must be ensured as follows regardless of the level of rated voltage:
  - Covers or coverings must comply with protection rating IPXXB as a minimum (protection against access by finger) or
  - Insulation that withstands a test voltage of AC 500 V for at least 1 minute.
- In Areas 0 and 1, only the SELV protection with a rated voltage = 12 V AC or = 30 V DC is permitted, whereby the current source for SELV is set up outside of Areas 0, 1 and 2. For exceptions, see 702.53.
- Electrical equipment must comply with the following protection ratings as a minimum:
  Area 0: IPX8;
  Area 1: IPX4 for indoor and outdoor areas, IPX5 in cases where cleaning with jet water is expected;
  Area 2: IPX2 for indoor areas; IPX4 for outdoor areas; IPX5 in cases where cleaning with jet water is expected;
- Junction/connection boxes must not be set up in Areas 0 and 1. These components are permitted in Area 1 however for SELV circuits.

Particularly suitable: Abox-i, STV series as well as AKi and GTi housing system.

Conformity to specifications and standards

Development, testing and production in accordance with national and European regulations and special licences document the high safety standard of els brand products

Quality management system under DIN EN ISO 9001
"Registration No.: 2923 / QM 02.97 (AA)
of the VDE Test and Certification Institute"

DIN VDE 0606, Part 1
Connection material up to 690 V Part 1:
Installation sockets for equipment
and/or connecting clamps

DIN EN 60670
Sockets and enclosures for household accessories
and similar fixed electrical installations
Part 1: General requirements
Part 21: Special requirements for sockets
and enclosures with suspension means
Part 22: Special requirements for junction boxes
Part 23: Special requirements for underfloor boxes

DIN EN 60999, VDE 0609 Part 1
Connection material - Electrical copper leads
– Security requirements for screw terminals and
screwless terminals
Part 1: General requirements and special requirements
for terminals for electrical leads of 0.2 mm
up to and including 35 mm

DIN EN 60998 (VDE 0613)
Connectors for low voltage circuits for domestic
and similar purposes
Part 1: General requirements
Part 2-1: Special requirements for connectors as
autonomous components with screw terminals
Part 2-2: Special requirements for connectors as
autonomous components with screwless terminals

Authorised Economic Operator

DIN EN 60947-7-1 (VDE 0611 part 1)
Low-voltage switchgear
Part 7-1: Auxiliary devices - Terminal blocks
for copper cable

DIN VDE 0603
Installation small distributor and counters AC 400 V
Part 1: Installation small distributor and counters
Part 2: Mains cable branch terminal

DIN EN 62208 (VDE 0660-511)
Empty enclosures for low-voltage switchgear
combinations, general requirements

DIN EN 60439-3 / VDE 660 Part 504
Low-voltage switchgear combinations
Part 3: Special requirements for low-voltage switchgear
combinations, which can be operated by the general
public - Installation distributors

License from the Veritas Bureau
Certificate No.: 2661 D / 2869 / CO / PRSO BV
File No. ACE 15 / 241 / 01

Shock testing at the Federal Office for Civil Protection
Regulation class RK 0.63 / 6.3 Safety grade A
Certificate of use 23 / 95

Numerous licenses from national test centres worldwide document our safety standard

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00590001	DB-ZEF Meter housing	360	1/1	
00590101	DB-ZE1 Meter housing	360	1/1	
00590201	DB-ZE2 Meter housing	360	1/1	
00591001	DB-ZEA Meter housing	360	1/1	
01000101	GTI 1-t Empty enclosure	360	1/1	
01000201	GTI 2-t Empty enclosure	360	1/1	
01000301	GTI 3-t Empty enclosure	360	1/1	
01000401	GTI 4-t Empty enclosure	360	1/1	
01000501	GTI 5-t Empty enclosure	360	1/1	
01009201	GBZ 2 lightning protection enclosure	360	1/1	
01040101	GTI 1-g Empty enclosure	360	1/1	
01040201	GTI 2-g Empty enclosure	360	1/1	
01040301	GTI 3-g Empty enclosure	360	1/1	
01040401	GTI 4-g Empty enclosure	360	1/1	
01040501	GTI 5-g Empty enclosure	360	1/1	
01047001	GTV 470 Socket distribution box	360	1/1	
01048001	GTV 480 Socket distribution box	360	1/1	
01048101	GTV 481 Socket distribution box	360	1/1	
01048201	GTV 482 Socket distribution box	360	1/1	
01048701	GTV 487 Socket distribution box	360	1/1	
01048801	GTV 488 Socket distribution box	360	1/1	
01049001	GTV 490 Socket distribution box	360	1/1	
01049101	GTV 491 Socket distribution box	360	1/1	
01049201	GTV 492 Socket distribution box	360	1/1	
01100201	GTI 2-KT-t Empty enclosure	360	1/1	
01100301	GTI 3-KT-t Empty enclosure	360	1/1	
01445601	GTA 456-Q-t Distribution board	360	1/1	
01511401	GTA 114-t Distribution board	360	1/1	
01522801	GTA 228-t Distribution board	360	1/1	
01534201	GTA 342-t Distribution board	360	1/1	
01545601	GTA 456-H-t Distribution board	360	1/1	
01558001	GTA 580-t Distribution board	360	1/1	
01622801	GTA 228-KT-t Distribution board	360	1/1	
01634201	GTA 342-KT-t Distribution board	360	1/1	
02000201	GTi 2 VS-KD-t Distribution board	360	1/1	
02000301	GTZ 3-t Meter housing	360	1/1	
02000401	GTZ 4-t Meter housing	360	1/1	
02035201	GSi 2 VS KD-t Distribution board	360	1/1	
02041001	GTZ 4-K Meter housing	360	1/1	
02100201	GTi 2 VS-KT-t Distribution board	360	1/1	
02100301	GTZ 3-KT Meter housing	360	1/1	
02135201	GSi 2 VS-KT-t Distribution board	360	1/1	
02141001	GTZ 4-KK Meter housing	360	1/1	
02142401	GTZ 4-KF-t Meter housing	360	1/1	
02210101	GTS 101 NH Fuse enclosure	360	1/1	
02220101	GTS 201 NH Fuse enclosure	360	1/1	
02220201	GTS 202 NH Fuse enclosure	360	1/1	
02241101	GTS 411 NH Fuse enclosure	360	1/1	
02242101	GTS 421 NH Fuse enclosure	360	1/1	
02610101	GTT 101 NH Fuse enclosure	360	1/1	
02620101	GTT 201 NH Fuse enclosure	360	1/1	
02620201	GTT 202 NH Fuse enclosure	360	1/1	
02641101	GTT 411 NH Fuse enclosure	360	1/1	
02642101	GTT 421 NH Fuse enclosure	360	1/1	
03210601	GTE 106 Empty enclosure for switchgear	360	1/1	
03210801	GTE 108 Empty enclosure for switchgear	360	1/1	
03221001	GTE 210 Empty enclosure for switchgear	360	1/1	
03221601	GTE 216 Empty enclosure for switchgear	360	1/1	
03242501	GTE 425 Empty enclosure for switchgear	360	1/1	
03244001	GTE 440 Empty enclosure for switchgear	360	1/1	
03246301	GTE 463 Empty enclosure for switchgear	360	1/1	
03641601	GLE 416 Empty enclosure for switchgear	360	1/1	
03642501	GLE 425 Empty enclosure for switchgear	360	1/1	
03644001	GLE 440 Empty enclosure for switchgear	360	1/1	
03646301	GLE 463 Empty enclosure for switchgear	360	1/1	
04024301	GSi 243 Busbar housing equipped	360	1/1	
04024401	GSi 244 Busbar housing equipped	360	1/1	
04024601	GSi 246 Busbar housing equipped	360	1/1	
04025301	GSi 253 Busbar housing equipped	360	1/1	
04025401	GSi 254 Busbar housing equipped	360	1/1	
04025601	GSi 256 Busbar housing equipped	360	1/1	
04044301	GSi 443 Busbar housing equipped	360	1/1	
04044401	GSi 444 Busbar housing equipped	360	1/1	
04044601	GSi 446 Busbar housing equipped	360	1/1	
04045301	GSi 453 Busbar housing equipped	360	1/1	
04045401	GSi 454 Busbar housing equipped	360	1/1	
04045601	GSi 456 Busbar housing equipped	360	1/1	
04200401	GSS 2024 NH Protection switch disconnector	360	1/1	
04200501	GSS 2025 NH Protection switch disconnector	360	1/1	
04201401	GSS 2014 NH Protection switch disconnector	360	1/1	
04201501	GSS 2015 NH Protection switch disconnector	360	1/1	
04202401	GSS 4024 NH Protection switch disconnector	360	1/1	
04202501	GSS 4025 NH Protection switch disconnector	360	1/1	
04203401	GSS 4034 NH Protection switch disconnector	360	1/1	
04203501	GSS 4035 NH Protection switch disconnector	360	1/1	
04204401	GSS 4044 NH Protection switch disconnector	360	1/1	
04204501	GSS 4045 NH Protection switch disconnector	360	1/1	
04211501	GSS 4115 NH Protection switch disconnector	360	1/1	
04211601	GSS 4116 NH Protection switch disconnector	360	1/1	
04221501	GSS 4215 NH Protection switch disconnector	360	1/1	
04600401	GST 2024 NH Fuse enclosure	360	1/1	
04600501	GST 2025 - 250 NH Fuse enclosure	360	1/1	
04600584	GST 2025 - 400 NH Fuse enclosure	360	1/1	
04600586	GST 2025 - 630 NH Fuse enclosure	360	1/1	
04601401	GST 2014 NH Fuse enclosure	360	1/1	
04601501	GST 2015 - 250 NH Fuse enclosure	360	1/1	
04601584	GST 2015 - 400 NH Fuse enclosure	360	1/1	
4601586	GST 2015 - 630 NH Fuse enclosure	360	1/1	
04602401	GST 4024 NH Fuse enclosure	360	1/1	
04602501	GST 4025 250 NH Fuse enclosure	360	1/1	
04602584	GST 4025 - 400 NH Fuse enclosure	360	1/1	
04602586	GST 4025 - 630 NH Fuse enclosure	360	1/1	
04603401	GST 4034 NH Fuse enclosure	360	1/1	
04603501	GST 4035 NH Fuse enclosure	360	1/1	
04603584	GST 4035 - 400 NH Fuse enclosure	360	1/1	
04603586	GST 4035 - 630 NH Fuse enclosure	360	1/1	
04604401	GST 4044 NH Fuse enclosure	360	1/1	
04604501	GST 4045 - 250 NH Fuse enclosure	360	1/1	
04604584	GST 4045 - 400 NH Fuse enclosure	360	1/1	
04604586	GST 4045 - 630 NH Fuse enclosure	360	1/1	
04611501	GST 4115 - 400 NH Fuse enclosure	360	1/1	
04611601	GST 4116 - 250 NH Fuse enclosure	360	1/1	
04611701	GST 4115-630 NH-RTr NH Fuse enclosure	360	1/1	
04640101	GST 401 KN - 250 Protection switch disconnector	360	1/1	
04640184	GST 401 KN - 400 Protection switch disconnector	360	1/1	
04640186	GST 401 KN - 630 Protection switch disconnector	360	1/1	
04640201	GST 402 KN - 250 Protection switch disconnector	360	1/1	
04640284	GST 402 KN - 400 Protection switch disconnector	360	1/1	
04640286	GST 402 KN - 630 Protection switch disconnector	360	1/1	
05022401	GSD 224 DIAZED® Protection switch disconnector	360	1/1	
05023301	GSD 233 DIAZED® Protection switch disconnector	360	1/1	
05042801	GSD 428 DIAZED® Protection switch disconnector	360	1/1	
05043601	GSD 436 DIAZED® Protection switch disconnector	360	1/1	
05122401	GSD 224-KT DIAZED® Protection switch disconnector	360	1/1	
05123301	GSD 233-KT DIAZED® Protection switch disconnector	360	1/1	
05500101	LFB Cover	360	15/1	
05522501	GSN 225 - 250 NEOZED®-Protection switch disconnector	360	1/1	
05522584	GSN 225 - 400 NEOZED®-Protection switch disconnector	360	1/1	
05522586	GSN 225 - 630 NEOZED®-Protection switch disconnector	360	1/1	
05541001	GSN 4210 - 250 NEOZED®-Protection switch disconnector	360	1/1	
05541084	GSN 4210 - 400 NEOZED®-Protection switch disconnector	360	1/1	
05541086	GSN 4210 - 630 NEOZED®-Protection switch disconnector	360	1/1	
05541201	GSN 4212 NEOZED®-Protection switch	360	1/1	
05622501	GSN 225-KT - 250 NEOZED®-Protection	360	1/1	
07000101	GTK 1 Box	360	4/1	
07000201	GTK 2 Box	360	2/1	
07000301	GTK 3 Box	360	2/1	
07000401	GTK 4 Box	360	2/1	

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07000501	GTK 5 Box	360	1/1	
07001101	GDT 1-t Cover	360	5/1	
07001201	GDT 2-t Cover	360	2/1	
07001301	GDT 3-t Cover	360	2/1	
07001401	GDT 4-t Cover	360	1/1	
07001501	GDT 5-t Cover	360	1/1	
07011201	GDK 2-KT Hinged door	360	2/1	
07011301	GDK 3-KT Hinged door	360	2/1	
07030001	GAB-V2A External fixing plates	360	60/1	
07031001	GAS Extrenal hinge set	360	30/1	
07041101	GDG 1-g Cover	360	4/1	
07041201	GDG 2-g Cover	360	2/1	
07041301	GDG 3-g Cover	360	2/1	
07041401	GDG 4-g Cover	360	1/1	
07041501	GDG 5-g Cover	360	1/1	
07042401	GDT 4 KF Hinged window	360	1/1	
07050101	GAR 1 Cover frame	360	4/1	
07050201	GAR 2 Cover frame	360	2/1	
07050301	GAR 3 Cover frame	360	2/1	
07050401	GAR 4 Cover frame	360	1/1	
07050501	GAR 5 Cover frame	360	1/1	
07071001	GSC hinge-joint screw	360	30/1	
07071101	GHA Mounting material	360	120/1	
07072101	GDSF lightning protection screw	360	1/1	
07080001	ZPR Z wall profile	360	1/1	183
07081001	APR System components for support frame	360	3/1	
07082001	AKB Clamp	360	10/1	
07083001	BPA Support frame	360	10/1	
07084001	AWB wall fastening	360	10/1	
07085001	AM 6x12 screw	360	50/1	
07099501	SDR Screwdriver	360	1/1	
07100101	GMS 1 Mounting plate	360	10/1	
07100201	GMS 2 Mounting plate	360	10/1	
07100301	GMS 3 Mounting plate	360	5/1	
07100401	GMS 4 Mounting plate	360	5/1	
07100501	GMS 5 Mounting plate	360	5/1	
07101101	GMI 1 Mounting plate	360	10/1	
07101201	GMI 2 Mounting plate	360	10/1	
07101301	GMI 3 Mounting plate	360	10/1	
07101401	GMI 4 Mounting plate	360	5/1	
07101501	GMI 5 Mounting plate	360	5/1	
07102101	GAI 1 cover panel	360	20/1	
07102201	GAI 2 cover panel	360	20/1	
07102301	GAI 3 cover panel	360	20/1	
07102401	GAI 4 cover panel	360	20/1	
07102501	GAI 5 cover panel	360	20/1	
07104001	DGS 40 Protection Ceiling	360	1/1	
07104201	GBT 2 electric shock protection	360	1/1	
07104401	GBT 4 electric shock protection	360	1/1	
07105101	GEI 1 Mounting plate	360	1/1	
07105201	GEI 2 Mounting plate	360	1/1	
07105301	GEI 3 Mounting plate	360	1/1	
07110201	GSW 2 Separation plate	360	100/1	
07110301	GSW 3 Separation plate	360	30/1	
07110401	GSW 4 Separation plate	360	30/1	
07121301	SC 13 screws	360	36/1	
07121601	SC 16 screws	360	36/1	
07122201	SC 22 screws	360	36/1	
07125601	SC 56 screws	360	30/1	
07130001	GZP Dirstribution board Cover	360	1/1	
07196001	GAP Sealing set	360	60/1	
07220001	GFL 20 Flange	360	20/1	
07221101	GFL 211-m Flange	360	20/1	
07222101	GFL 221-m Flange	360	20/1	
07223101	GFL 231-m Flange	360	1/1	
07227001	GSF 270 Gland plate	360	1/1	
07228001	GSF 280 Gland plate	360	1/1	
07228101	GSF 281 Gland plate	360	1/1	
07230001	GFL 30 Flange	360	20/1	
07232101	GFL 321-m Flange	360	20/1	
07233101	GFL 331-m Flange	360	20/1	
07234101	GFL 341-m Flange	360	20/1	
07235101	GFL 351-m Flange	360	20/1	
07236101	GFL 361-m Flange	360	20/1	
07237001	GSF 370 Gland plate	360	1/1	
07237101	GSF 371 Gland plate	360	1/1	
07238001	GSF 380 Gland plate	360	1/1	
07238101	GSF 381 Gland plate	360	1/1	
07238201	GSF 382 Gland plate	360	1/1	
07240001	GFL 40 Flange	360	20/1	
07241101	GFL 411-m Flange	360	20/1	
07242101	GFL 421-m Flange	360	20/1	
07251101	GFS 11-m Flange set	360	5/1	
07251201	GFS 12-m Flange set	360	1/1	
07251301	GFS 13-m Flange set	360	1/1	
07251401	GFS 14-m Flange set	360	1/1	
07251501	GFS 15-m Flange set	360	1/1	
07280301	GFG 3 Enclosure wall	360	20/1	
07280401	GFG 4 Enclosure wall	360	10/1	
07290001	GFT Flange bar	360	30/1	
07295001	GFK Flange clip	360	30/1	
07300101	GKE 1 Cable in-feed	360	10/1	
07300301	GZE3 Strain relief	360	10/1	34
07300401	GZE4 Strain relief	360	5/1	34
07303201	GKE32 Cable in-feed	360	4/1	34
07304301	GKE43 Cable in-feed	360	4/1	34
07307501	GZS 75 Additional clamp for strain relief	360	30/1	
07332101	GKZ 321 Strain relief	360	4/1	
07343101	GKZ 431 Strain relief	360	4/1	
07400201	GNS 002 Mounting rail	360	25/1	
07400301	GNS 003 Mounting rail	360	25/1	
07400401	GNS 004 Mounting rail	360	25/1	
07400601	GNS 006 Mounting rail	360	25/1	
07412301	PNS 123 PE/N terminal	360	50/1	
07412401	PNS 124 PE/N terminal	360	50/1	
07423501	GNU 235 Mounting rail	360	25/1	
07433501	GNU 335 Mounting rail	360	35/1	
07443501	GNU 435 Mounting rail	360	25/1	
07463501	GNU 635 Mounting rail	360	25/1	
07490001	GUM Busbar trunk	360	30/1	
07500401	GS 5 Busbar support	360	1/1	
07500501	GUS 5 Busbar support	360	30/1	
07501501	SKL 015 Busbar terminal	360	25/1	
07502401	SKL 024 Busbar terminal	360	25/1	
07504601	GSV 46 Busbar coupler	360	12/1	
07505201	SKL 052 Busbar terminal	360	25/1	
07505601	GSV 56 Busbar coupler	360	15/1	
07507201	SKL 072 Busbar terminal	360	25/1	
07509201	SKL 092 Busbar terminal	360	25/1	
07510001	LFK 100-sw Flat cable	360	1/1	
07510101	LFK 100-gg Flat cable	360	1/1	
07510201	LFK 100 bl Flat cable	360	1/1	
07511201	SKL 112 Busbar terminal	360	25/1	
07511601	SKL 116 Busbar terminal	360	100/1	
07513501	SKL 135 Busbar terminal	360	50/1	
07516001	LFK 160-sw Flat cable	360	1/1	
07516101	LFK 160-gg Flat cable	360	1/1	
07516201	LFK 160-bl Flat cable	360	1/1	
07517001	SKL 170 Busbar terminal	360	25/1	
07525001	LFK 250-sw Flat cable	360	1/1	
07525101	LFK 250-gg Flat cable	360	1/1	
07525201	LFK 250-bl Flat cable	360	1/1	
07533001	SKL 330 Busbar terminal	360	3/1	
07533301	SKL 333 Busbar terminal	360	10/1	
07540001	LFK 400-sw Flat cable	360	1/1	
07540101	LFK 400-gg Flat cable	360	1/1	
07540201	LFK 400-bl Flat cable	360	1/1	
07551201	SKL 512 Busbar terminal	360	25/1	

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Order-No.	Description	Disc. Group	Pack. Quantity	Page
07551601	SKL 516 Busbar terminal	360	100/1	
07553501	SKL 535 Busbar terminal	360	50/1	
07557001	SKL 570 Busbar terminal	360	25/1	
07563001	LFK 630-sw Flat cable	360	1/1	
07563101	LFK 630 gg Flat cable	360	1/1	
07563201	LFK 630 bl Flat cable	360	1/1	
07600101	GPE 0 PE/N terminal	360	1/1	
07600201	GN 0 PE/N-terminal	360	1/1	
07601101	GPE 1 PE/N terminal	360	35/1	
07601201	GN 1 PE/N-terminal	360	10/1	
07602101	GPE 2 PE/N terminal	360	10/1	
07602201	GN 2 PE/N-terminal	360	1/1	
07603101	GPE 3 PE/N terminal	360	10/1	
07603201	GN 3 PE/N-terminal	360	10/1	
07611001	KU 1 Direct terminal	360	50/1	
07612001	KU 2 Direct terminal	360	25/1	
07612501	AKL 125 Terminal	360	12/1	34
07614001	AKL 140 Terminal	360	1/1	34
07616001	KU 160 Direct terminal	360	12/1	
07616301	AKL 163 Connecting terminal	360	4/1	
07625001	KU 250 Direct terminal	360	12/1	
07640001	KU 400 Direct terminal	360	12/1	
07641601	AKL 416 Connecting terminal	360	1/1	
07663001	KU 630 Direct terminal	360	12/1	
07670001	KP NH 00 Rail terminal bar	360	1/1	
07670101	KP NH 1 Rail terminal bar	360	1/12	
07670201	KP NH 2 Rail terminal bar	360	1/1	
07671101	KF NH 1 Flat copper rail terminal	360	1/1	
07671201	KF NH 2 Flat copper rail terminal	360	1/1	
07671301	KF NH 3 Flat copper rail terminal	360	1/1	
07671601	KK 160 Terminal	360	1/1	
07672001	KB NH 00 Rail terminal	360	1/1	
07701601	GHL 016 Auxiliary switch	360	18/1	
07710601	GHL 106 Auxiliary switch	360	18/1	
07711201	GHL 112 Auxiliary switch	360	18/1	
07716101	GHT 161 Auxiliary switch	360	1/1	
07763101	GHT 631 Auxiliary switch	360	1/1	
07763201	GHT 632 Auxiliary switch	360	1/1	
07901801	RE 18 fuse enclosures	360	1/1	
07901901	SK 18 fuse enclosures	360	1/1	
07902701	RE 27 DIAZED®-fuse enclosures	360	1/1	
07903301	RE 33 DIAZED®-fuse enclosures	360	1/1	
07910001	NHS 00 Fuse enclosure assembly	360	1/1	
07910101	NHS 1 Fuse enclosure assembly	360	1/1	
07911001	NHS 00 Fuse enclosure assembly	360	1/1	
07920001	NHT 00 HRC fuse assembly	360	1/1	
07920101	NHT 1 HRC fuse assembly	360	1/1	
07920201	NHT 2 HRC fuse assembly	360	1/1	
07950001	NH-RS 00 NH fuse	360	1/1	
07950101	NH-RS 1 NH fuse	360	1/1	
07950201	NH-RS 2 NH fuse	360	1/1	
07960001	NH-RT 00 NH fuse disconnecting switch	360	1/1	
07960101	NH-RT 1 NH fuse disconnecting switch	360	1/1	
10040301	TG ABS 88-6-o Empty enclosure	800	1/1	267
10040401	TG ABS 1208-6-o Empty enclosure	800	1/1	271
10040501	TG ABS 1212-6-o Empty enclosure	800	1/1	275
10040601	TG ABS 1608-6-o Empty enclosure	800	1/1	279
10040701	TG ABS 1612-9-o Empty enclosure	800	1/1	283
10040801	TG ABS 2012-8-o Empty enclosure	800	1/1	285
10040901	TG ASB 2015-8-o Empty enclosure	800	1/1	289
10041201	TG ABS 2516-9-o Empty enclosure	800	1/1	291
10041301	TG ABS 3023-9-o Empty enclosure	800	1/1	295
10090301	TG ABS 88-9-o Empty enclosure	800	1/1	269
10090401	TG ABS 1208-9-o Empty enclosure	800	1/1	273
10090501	TG ABS 1212-9-o Empty enclosure	800	1/1	277
10090601	TG ABS 1608-9-o Empty enclosure	800	1/1	281
10090801	TG ABS 2012-9-o Empty enclosure	800	1/1	287
10091201	TG ABS 2516-12-o Empty enclosure	800	1/1	293
10091301	TG ABS 3023-11-o Empty enclosure	800	1/1	297

Order-No.	Description	Disc. Group	Pack. Quantity	Page
10100301	TG ABS 88-6-to Empty enclosure	800	1/1	267
10100401	TG ABS 1208-6-to Empty enclosure	800	1/1	271
10100501	TG ABS 1212-6-to Empty enclosure	800	1/1	275
10100601	TG ABS 1608-6-to Empty enclosure	800	1/1	279
10100701	TG ABS 1612-9-to Empty enclosure	800	1/1	283
10100801	TG ABS 2012-8-to Empty enclosure	800	1/1	285
10100901	TG ASB 2015-8-to Empty enclosure	800	1/1	289
10101201	TG ABS 2516-9-to Empty enclosure	800	1/1	291
10101301	TG ABS 3023-9-to Empty enclosure	800	1/1	295
10150301	TG ABS 88-9-to Empty enclosure	800	1/1	269
10150401	TG ABS 1208-9-to Empty enclosure	800	1/1	273
10150501	TG ABS 1212-9-to Empty enclosure	800	1/1	277
10150601	TG ABS 1608-9-to Empty enclosure	800	1/1	281
10150801	TG ABS 2012-9-to Empty enclosure	800	1/1	287
10151201	TG ABS 2516-12-to Empty enclosure	800	1/1	293
10151301	TG ABS 3023-11-to Empty enclosure	800	1/1	297
10440601	PS 1811-16-m Empty enclosure	600	8/2	247
10440701	PS 1818-16-m Empty enclosure	600	4/1	251
10440801	PS 2518-16-m Empty enclosure	600	4/1	255
10441101	PS 2518-13f-m Empty enclosure	600	4/1	253
10441301	PS 1818-13f-m Empty enclosure	600	4/1	249
10441401	PS 1811-13f-m Empty enclosure	600	8/2	245
10490801	PS 2518-21-m Empty enclosure	600	2/1	
10540101	PS 77-6-m Empty enclosure	600	40/5	231
10540201	PS 97-6-m Empty enclosure	600	25/5	233
10540301	PS 99-6-m Empty enclosure	600	40/4	235
10540401	PS 1111-7-m Empty enclosure	600	21/3	237
10540501	PS 1313-7-m Empty enclosure	600	14/2	241
10540601	PS 1811-9-m Empty enclosure	600	16/2	247
10540701	PS 1818-9-m Empty enclosure	600	8/2	251
10540801	PS 2518-9-m Empty enclosure	600	8/1	255
10540901	PS 1309-6-m Empty enclosure	600	30/3	239
10541001	PS 1809-6-m Empty enclosure	600	20/2	243
10541101	PS 2518-6f-m Empty enclosure	600	8/1	253
10541201	PS 3625-11-m Empty enclosure	600	3/1	257
10541301	PS 1818-6f-m Empty enclosure	600	8/2	249
10541401	PS 1811-6f-m Empty enclosure	600	12/2	245
10590101	PS 77-8-m Empty enclosure	600	45/5	231
10590201	PS 97-8-m Empty enclosure	600	15/5	233
10590301	PS 99-8-m Empty enclosure	600	30/3	235
10590401	PS 1111-9-m Empty enclosure	600	12/3	237
10590501	PS 1313-10-m Empty enclosure	600	8/2	241
10590601	PS 1811-11-m Empty enclosure	600	12/2	247
10590701	PS 1818-11-m Empty enclosure	600	8/2	251
10590801	PS 2518-11-m Empty enclosure	600	6/1	255
10590901	PS 1309-8-m Empty enclosure	600	21/3	239
10591001	PS 1809-8-m Empty enclosure	600	14/2	243
10591101	PS 2518-8f-m Empty enclosure	600	8/1	253
10591201	PS 3625-16-m Empty enclosure	600	2/1	257
10591301	PS 1818-8f-m Empty enclosure	600	1/1	249
10591401	PS 1811-8f-m Empty enclosure	600	12/2	245
10600101	PS 77-6-tm Empty enclosure	600	40/5	231
10600201	PS 97-6-tm Empty enclosure	600	25/5	233
10600301	PS 99-6-tm Empty enclosure	600	40/4	235
10600401	PS 1111-7-tm Empty enclosure	600	21/3	237
10600501	PS 1313-7-tm Empty enclosure	600	14/2	241
10600601	PS 1811-9-tm Empty enclosure	600	16/2	247
10600701	PS 1818-9-tm Empty enclosure	600	8/2	251
10600801	PS 2518-9-tm Empty enclosure	600	8/1	255
10600901	PS 1309-6-tm Empty enclosure	600	30/3	239
10601001	PS 1809-6-tm Empty enclosure	600	20/2	243
10601101	PS 2518-6f-tm Empty enclosure	600	8/1	253
10601201	PS 3625-11-tm Empty enclosure	600	3/1	257
10601301	PS 1818-6-f-tm Empty enclosure	600	8/2	249
10601401	PS 1811-6f-tm Empty enclosure	600	12/2	245
10650101	PS 77-8-tm Empty enclosure	600	45/5	231
10650201	PS 97-8-tm Empty enclosure	600	15/5	233
10650301	PS 99-8-tm Empty enclosure	600	30/3	235
10650401	PS 1111-9-tm Empty enclosure	600	12/3	237

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Order-No.	Description	Disc. Group	Pack. Quantity	Page
10650501	PS 1313-10-tm Empty enclosure	600	8/2	241
10650601	PS 1811-11-tm Empty enclosure	600	12/2	247
10650701	PS 1818-11-tm Empty enclosure	600	8/2	251
10650801	PS 2518-11-tm Empty enclosure	600	6/1	255
10650901	PS 1309-8-tm Empty enclosure	600	21/3	239
10651001	PS 1809-8-tm Empty enclosure	600	14/2	243
10651101	PS 2518-8f-tm Empty enclosure	600	8/1	253
10651201	PS 3625-16-tm Empty enclosure	600	2/1	257
10651301	PS 1818-8f-tm Empty enclosure	600	8/2	249
10651401	PS 1811-8f-tm Empty enclosure	600	12/2	245
10700601	PS 1811-16-tm Empty enclosure	600	8/2	245
10700701	PS 1818-16-tm Empty enclosure	600	4/1	251
10700801	PS 2518-16-tm Empty enclosure	600	4/1	255
10701101	PS 2518-13f-tm Empty enclosure	600	4/1	253
10701301	PS 1818-13-f-tm Empty enclosure	600	4/2	249
10701401	PS 1811-13f-tm Empty enclosure	600	8/2	245
10750801	PS 2518-21-tm Empty enclosure	600	2/1	
10940601	PS 1811-16-o Empty enclosure	600	8/2	247
10940701	PS 1818-16-o Empty enclosure	600	4/1	251
10940801	PS 2518-16-o Empty enclosure	600	4/1	255
10941101	PS 2518-13f-o Empty enclosure	600	4/1	253
10941301	PS 1818-13f-o Empty enclosure	600	8/2	249
10941401	PS 1811-13f-o Empty enclosure	600	8/2	245
10990801	PS 2518-21-o Empty enclosure	600	2/1	
11040101	PS 77-6-o Empty enclosure	600	40/5	231
11040201	PS 97-6-o Empty enclosure	600	25/5	233
11040301	PS 99-6-o Empty enclosure	600	40/4	235
11040401	PS 1111-7-o Empty enclosure	600	21/3	237
11040501	PS 1313-7-o Empty enclosure	600	14/2	241
11040601	PS 1811-9-o Empty enclosure	600	16/2	247
11040701	PS 1818-9-o Empty enclosure	600	8/2	251
11040801	PS 2518-9-o Empty enclosure	600	8/1	255
11040901	PS 1309-6-o Empty enclosure	600	30/3	239
11041001	PS 1809-6-o Empty enclosure	600	20/2	243
11041101	PS 2518-6f-o Empty enclosure	600	8/1	253
11041201	PS 3625-11-o Empty enclosure	600	3/1	257
11041301	PS 1818-6f-o Empty enclosure	600	8/2	249
11041401	PS 1811-6f-o Empty enclosure	600	1/1	245
11090101	PS 77-8-o Empty enclosure	600	45/5	231
11090201	PS 97-8-o Empty enclosure	600	15/5	233
11090301	PS 99-8-o Empty enclosure	600	30/3	235
11090401	PS 1111-9-o Empty enclosure	600	12/3	237
11090501	PS 1313-10-o Empty enclosure	600	8/2	241
11090601	PS 1811-11-o Empty enclosure	600	12/2	247
11090701	PS 1818-11-o Empty enclosure	600	8/2	251
11090801	PS 2518-11-o Empty enclosure	600	6/1	255
11090901	PS 1309-8-o Empty enclosure	600	21/3	239
11091001	PS 1809-8-o Empty enclosure	600	14/2	243
11091101	PS 2518-8f-o Empty enclosure	600	8/1	253
11091201	PS 3625-16-o Empty enclosure	600	2/1	257
11091301	PS 1818-8f-o Empty enclosure	600	8/2	249
11091401	PS 1811-8f-o Empty enclosure	600	1/1	245
11100101	PS 77-6-to Empty enclosure	600	40/5	231
11100201	PS 97-6-to Empty enclosure	600	25/5	233
11100301	PS 99-6-to Empty enclosure	600	40/4	235
11100401	PS 1111-7-to Empty enclosure	600	21/3	237
11100501	PS 1313-7-to Empty enclosure	600	14/2	241
11100601	PS 1811-9-to Empty enclosure	600	16/2	247
11100701	PS 1818-9-to Empty enclosure	600	8/2	251
11100801	PS 2518-9-to Empty enclosure	600	8/1	255
11100901	PS 1309-6-to Empty enclosure	600	30/3	239
11101001	PS 1809-6-to Empty enclosure	600	20/2	243
11101101	PS 2518-6f-to Empty enclosure	600	8/1	253
11101201	PS 3625-11-to Empty enclosure	600	3/1	257
11101301	PS 1818-6-f-to Empty enclosure	600	8/2	249
11101401	PS 1811-6f-to Empty enclosure	600	12/2	245
11150101	PS 77-8-to Empty enclosure	600	45/5	231
11150201	PS 97-8-to Empty enclosure	600	15/5	233
11150301	PS 99-8-to Empty enclosure	600	30/3	235
11150401	PS 1111-9-to Empty enclosure	600	12/3	237
11150501	PS 1313-10-to Empty enclosure	600	8/2	241
11150601	PS 1811-11-to Empty enclosure	600	12/2	247
11150701	PS 1818-11-to Empty enclosure	600	8/2	251
11150801	PS 2518-11-to Empty enclosure	600	6/1	255
11150901	PS 1309-8-to Empty enclosure	600	21/3	239
11151001	PS 1809-8-to Empty enclosure	600	14/2	243
11151101	PS 2518-8f-to Empty enclosure	600	8/1	253
11151201	PS 3625-16-to Empty enclosure	600	2/1	257
11151301	PS 1818-8-f-to Empty enclosure	600	8/2	249
11151401	PS 1811-8f-to Empty enclosure	600	12/2	245
11200601	PS 1811-16-to Empty enclosure	600	8/2	247
11200701	PS 1818-16-to Empty enclosure	600	4/1	251
11200801	PS 2518-16-to Empty enclosure	600	4/1	255
11201101	PS 2518-13f-to Empty enclosure	600	4/1	253
11201301	PS 1818-13-f-to Empty enclosure	600	1/1	245
11201401	PS 1811-13f-to Empty enclosure	600	8/2	245
11250801	PS 2518-21-to Empty enclosure	600	2/1	
12041401	PC 1811-6f-o Empty enclosure	600	1/1	
12045501	PC 55-4-o Empty enclosure	600	60/5	227
12047501	PC 75-4-o Empty enclosure	600	50/1	229
12091401	PC 1811-8f-o Empty enclosure	600	1/1	
12141401	PC 1811-13f-o Empty enclosure	600	1/1	
12740101	PC 77-6-m Empty enclosure	600	40/5	231
12740201	PC 97-6-m Empty enclosure	600	25/5	233
12740301	PC 99-6-m Empty enclosure	600	40/4	235
12740401	PC 1111-7-m Empty enclosure	600	21/3	237
12740501	PC 1313-7-m Empty enclosure	600	14/2	241
12740601	PC 1811-9-m Empty enclosure	600	16/2	247
12740701	PC 1818-9-m Empty enclosure	600	8/2	251
12740801	PC 2518-9-m Empty enclosure	600	8/1	255
12740901	PC 1309-6-m Empty enclosure	600	30/3	239
12741001	PC 1809-6-m Empty enclosure	600	20/2	243
12741101	PC 2518-6f-m Empty enclosure	600	8/1	253
12741201	PC 3625-11-m Empty enclosure	600	3/1	257
12741301	PC 1818-6-fm Empty enclosure	600	8/2	249
12741401	PC 1811-6f-m Empty enclosure	600	12/2	245
12745501	PC 55-4-m Empty enclosure	600	60/5	227
12747501	PC 75-4-m Empty enclosure	600	45/5	229
12790101	PC 77-8-m Empty enclosure	600	45/5	231
12790201	PC 97-8-m Empty enclosure	600	15/5	233
12790301	PC 99-8-m Empty enclosure	600	30/3	235
12790401	PC 1111-9-m Empty enclosure	600	12/3	237
12790501	PC 1313-10-m Empty enclosure	600	8/2	241
12790601	PC 1811-11-m Empty enclosure	600	12/2	247
12790701	PC 1818-11-m Empty enclosure	600	8/2	251
12790801	PC 2518-11-m Empty enclosure	600	6/1	255
12790901	PC 1309-8-m Empty enclosure	600	21/3	239
12791001	PC 1809-8-m Empty enclosure	600	14/2	243
12791101	PC 2518-8f-m Empty enclosure	600	8/1	253
12791201	PC 3625-16-m Empty enclosure	600	2/1	257
12791301	PC 1818-8-fm Empty enclosure	600	8/2	249
12791401	PC 1811-8f-m Empty enclosure	600	12/2	245
12840601	PC 1811-16-m Empty enclosure	600	8/2	247
12840701	PC 1818-16-m Empty enclosure	600	4/1	251
12840801	PC 2518-16-m Empty enclosure	600	4/1	255
12841101	PC 2518-13f-m Empty enclosure	600	4/1	253
12841301	PC 1818-13f-m Empty enclosure	600	1/1	249
12841401	PC 1811-13f-m Empty enclosure	600	1/1	245
12890801	PC 2518-21-m Empty enclosure	600	2/1	
12945501	PC 55-4-v Empty enclosure	600	40/1	227
12947501	PC 75-4-v Empty enclosure	600	45/5	229
13001401	PC 1811-6f-to Empty enclosure	600	1/1	
13045501	PC 55-4-to Empty enclosure	600	1/1	227
13047501	PC 75-4-to Empty enclosure	600	1/1	
13051401	PC 1811-8f-to Empty enclosure	600	1/1	
13101401	PC 1811-13f-to Empty enclosure	600	1/1	
13700101	PC 77-6-tm Empty enclosure	600	40/5	231
13700201	PC 97-6-tm Empty enclosure	600	25/5	233

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Order-No.	Description	Disc. Group	Pack. Quantity	Page
13700301	PC 99-6-tm Empty enclosure	600	40/4	235
13700401	PC 1111-7-tm Empty enclosure	600	21/3	237
13700501	PC 1313-7-tm Empty enclosure	600	14/2	241
13700601	PC 1811-9-tm Empty enclosure	600	16/2	247
13700701	PC 1818-9-tm Empty enclosure	600	8/2	251
13700801	PC 2518-9-tm Empty enclosure	600	8/1	255
13700901	PC 1309-6-tm Empty enclosure	600	30/3	239
13701001	PC 1809-6-tm Empty enclosure	600	20/2	243
13701101	PC 2518-6f-tm Empty enclosure	600	8/1	253
13701201	PC 3625-11-tm Empty enclosure	600	3/1	257
13701301	PC 1818-6f-tm Empty enclosure	600	8/2	249
13701401	PC 1811-6f-tm Empty enclosure	600	8/2	245
13745501	PC 55-4-tm Empty enclosure	600	60/5	227
13747501	PC 75-4-tm Empty enclosure	600	45/5	
13750101	PC 77-8-tm Empty enclosure	600	45/5	231
13750201	PC 97-8-tm Empty enclosure	600	15/5	233
13750301	PC 99-8-tm Empty enclosure	600	30/3	234
13750401	PC 1111-9-tm Empty enclosure	600	12/3	237
13750501	PC 1313-10-tm Empty enclosure	600	8/2	241
13750601	PC 1811-11-tm Empty enclosure	600	12/2	247
13750701	PC 1818-11-tm Empty enclosure	600	8/2	251
13750801	PC 2518-11-tm Empty enclosure	600	6/1	255
13750901	PC 1309-8-tm Empty enclosure	600	21/3	239
13751001	PC 1809-8-tm Empty enclosure	600	14/2	243
13751101	PC 2518-8f-tm Empty enclosure	600	8/1	253
13751201	PC 3625-16-tm Empty enclosure	600	2/1	257
13751301	PC 1818-8f-tm Empty enclosure	600	8/2	249
13751401	PC 1811-8f-tm Empty enclosure	600	8/2	245
13800601	PC 1811-16-tm Empty enclosure	600	8/2	247
13800701	PC 1818-16-tm Empty enclosure	600	4/1	251
13800801	PC 2518-16-tm Empty enclosure	600	4/1	255
13801101	PC 2518-13f-tm Empty enclosure	600	4/1	253
13801301	PC 1818-13f-tm Empty enclosure	600	8/2	249
13801401	PC 1811-13f-tm Empty enclosure	600	8/2	245
13850801	PC 2518-21-tm Empty enclosure	600	2/1	
13945501	PC 55-4-tv Empty enclosure	600	60/5	227
13947501	PC 75-4-tv Empty enclosure	600	45/5	
15000101	AL 55-3 Empty enclosure	700	6/1	316
15000201	AL 66-3 Empty enclosure	700	6/1	316
15000301	AL 1006-3 Empty enclosure	700	4/1	316
15000401	AL 1506-3 Empty enclosure	700	2/1	316
15000501	AL 88-6 Empty enclosure	700	1/1	317
15000601	AL 1308-6 Empty enclosure	700	1/1	317
15000701	AL 1808-6 Empty enclosure	700	1/1	317
15000801	AL 1010-8 Empty enclosure	700	1/1	317
15000901	AL 1212-8 Empty enclosure	700	1/1	318
15001001	AL 2212-8 Empty enclosure	700	1/1	318
15001101	AL 1616-9 Empty enclosure	700	1/1	318
15001201	AL 2616-9 Empty enclosure	700	1/1	318
15001301	AL 3616-9 Empty enclosure	700	1/1	319
15001401	AL 2023-11 Empty enclosure	700	1/1	319
15001501	AL 2823-11 Empty enclosure	700	1/1	319
15001601	AL 3323-11 Empty enclosure	700	1/1	319
15400101	AL PST-kl Sealing set	700	1/1	
15400201	AL PST-mi Sealing set	700	1/1	
15400301	AL PST-gro Sealing set	700	1/1	
15400401	AL ALS-kl External fixing plates	700	1/1	321
15400601	AL ALS-gro External fixing plates	700	1/1	321
15421001	AL ASS Extrenal hinge set	700	1/1	321
15500501	AL MPS-88 Mounting plate	700	1/1	320
15500601	AL MPS-1308 Mounting plate	700	1/1	320
15500701	AL MPS-1808 Mounting plate	700	1/1	320
15500801	AL MPS-1010 Mounting plate	700	1/1	320
15500901	AL MPS-1212 Mounting plate	700	1/1	320
15501001	AL MPS-2212 Mounting plate	700	1/1	320
15501101	AL MPS-1616 Mounting plate	700	1/1	320
15501201	AL MPS-2616 Mounting plate	700	1/1	320
15501301	AL MPS-3616 Mounting plate	700	1/1	320
15501401	AL MPS-2023 Mounting plate	700	1/1	320
15501501	AL MPS-2823 Mounting plate	700	1/1	320
15501601	AL MPS-3323 Mounting plate	700	1/1	320
16040501	ALR 88-4² Terminal block housing	700	1/1	102
16040601	ALR 1308-4² Terminal block housing	700	1/1	102
16040701	ALR 1808-4² Terminal block housing	700	1/1	102
16040801	ALR 1010-4² Terminal block housing	700	8/1	102
16040901	ALR 1212-4² Terminal block housing	700	1/1	103
16041001	ALR 2212-4² Terminal block housing	700	1/1	103
16041101	ALR 1616-4² Terminal block housing	700	1/1	103
16041201	ALR 2616-4² Terminal block housing	700	1/1	103
16041301	ALR 3616-4² Terminal block housing	700	1/1	104
16041401	ALR 2023-4² Terminal block housing	700	1/1	104
16041501	ALR 2823-4² Terminal block housing	700	1/1	104
16041601	ALR 3323-4² Terminal block housing	700	1/1	104
16090901	ALR 1212-L Terminal block housing	700	1/1	103
16091001	ALR 2212-L Terminal block housing	700	4/1	103
16091101	ALR 1616-L Terminal block housing	700	8/1	103
16091201	ALR 2616-L Terminal block housing	700	2/1	103
16091301	ALR 3616-L Terminal block housing	700	1/1	104
16091401	ALR 2023-L Terminal block housing	700	1/1	104
16091501	ALR 2823-L Terminal block housing	700	3/1	104
16091601	ALR 3323-L Terminal block housing	700	1/1	104
16200901	AL NS35-110 Mounting rail	700	1/1	320
16201001	AL NS35-208 Mounting rail	700	1/1	320
16201101	AL NS35-145 Mounting rail	700	1/1	320
16201201	AL NS35-245 Mounting rail	700	1/1	320
16201301	AL NS35-345 Mounting rail	700	1/1	320
16201401	AL NS35-186 Mounting rail	700	1/1	320
16201501	AL NS35-266 Mounting rail	700	1/1	320
16201601	AL NS35-316 Mounting rail	700	1/1	320
17742301	GF4 1000-25 Generator Isolation housing	650	6/1	217
17747301	GF4 1000-25 ÜSS Generator Isolation housing	650	6/1	217
17810201	GF1 500-16 Generator Isolation housing	650	9/1	217
17810301	GF1 800-16 Generator Isolation housing	650	9/1	217
17820201	GF2 500-16 Generator Isolation housing	650	9/1	217
17820301	GF2 800-16 Generator Isolation housing	650	6/1	217
17822301	GF2x2 800-16 Generator Isolation housing	650	1/1	219
17825301	GF2 500-16 ÜSS Generator Isolation housing	650	6/1	217
17825401	GF2 800-16 ÜSS Generator Isolation housing	650	1/1	217
17827501	GF2x2 800-16 ÜSS Generator Isolation housing	650	2/1	218
17832301	GF2x3 800-16 Generator Isolation housing	650	1/1	218
17837501	GF2x3 800-16 ÜSS Generator Isolation housing	650	1/1	218
17840201	GF4 500-16 Generator Isolation housing	650	6/1	217
17840301	GF4 800-16 Generator Isolation housing	650	4/1	217
17841201	GF4 500-25 Generator Isolation housing	650	6/1	217
17842301	GF4 800-25 Generator Isolation housing	650	4/1	217
17845301	GF4 500-16 ÜSS Generator Isolation housing	650	4/1	217
17845401	GF4 800-16 ÜSS Generator Isolation housing	650	1/1	217
17846301	GF4 500-25 ÜSS Generator Isolation housing	650	4/1	217
17847301	GF4 800-25 ÜSS Generator Isolation housing	650	1/1	217
17881201	GF8 500-25 Generator Isolation housing	650	4/1	217
17881301	GF8 800-25 Generator Isolation housing	650	1/1	217
17886301	GF8 500-25 ÜSS Generator Isolation housing	650	1/1	217
17887301	GF8 800-25 ÜSS Generator Isolation housing	650	1/1	217
18200101	TG ISS Set	600	1/1	299
18200201	TG ABL External fixing plates	600	1/1	299
18200401	TG PST 1 Sealing-Set	600	500/1	299
18200501	TG PST 2 Sealing-Set	600	500/1	299
18600301	TG MPI-88 Mounting plate	800	1/1	298
18600401	TG MPI-1208 Mounting plate	800	1/1	298
18600501	TG MPI-1212 Mounting plate	800	1/1	298
18600601	TG MPI-1608 Mounting plate	800	1/1	298
18600701	TG MPI-1612 Mounting plate	800	1/1	298
18600801	TG MPI-2012 Mounting plate	800	1/1	298
18600901	TG MPI-2015 Mounting plate	800	1/1	298
18601201	TG MPI-2516 Mounting plate	800	1/1	298
18601301	TG MPI-3023 Mounting plate	800	1/1	298
18700301	TG MPS-88 Mounting plate	800	1/1	298
18700401	TG MPS-1208 Mounting plate	800	1/1	298

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18700601	TG MPS-1608 Mounting plate	800	1/1	298
18700701	TG MPS-1612 Mounting plate	800	1/1	298
18700801	TG MPS-2012 Mounting plate	800	1/1	298
18700901	TG MPS-2015 Mounting plate	800	1/1	298
18701201	TG MPS-2516 Mounting plate	800	1/1	298
18701301	TG MPS-3023 Mounting plate	800	1/1	298
19000101	HBA Mounting material	600	200/1	260
19000201	ASS-kl Extrenal hinge kit	600	200/1	260
19000501	ASS-gro Extrenal hinge kit	600	200/1	181
19001001	TK DS-ku/g Cover screw	600	1/1	263
19001101	TK DS-lg/g Cover screw	600	1/1	263
19001201	TK DS-ku/sw Cover screw	600	1/1	263
19001301	TK DS-lg/sw Cover screw	600	1/1	263
19001401	TK DS-ku/g/T40 Lid screw	600	1/1	263
19001501	TK DS-ku/sw/T40 Lid screw	600	1/1	263
19001601	TK DS-lg/g/T40 Lid screw	600	1/1	263
19001701	TK DS-lg Lid screw	600	1/1	263
19010001	VSG Padlock kit	600	20/1	261
19011201	ADS TK-SR cover plug	600	240/1	
19020001	DS 3 x 8 mm Cover screw	600	100/1	263
19180001	TG 1 Handle	600	30/1	262
19180001	TG 1 Handle	600	30/1	262
19180501	TG 2 Handle	600	30/1	262
19180501	TG 2 Handle	600	40/1	262
19190001	SD Schuko 16 Mounted socket	600	1/1	
19190101	SD CEE 16 Mounting socket	600	1/1	
19190201	SD CEE 32 Mounting socket	600	1/1	
19200101	KS Pg 16 Combi set	600	100/1	
19200201	KS Pg 21 Combi set	600	100/1	
19200301	KS Pg 29 Combi set	600	100/1	
19201801	KS gro Combi set	600	100/1	
19202001	KS M20 Combi set	600	100/1	179
19202501	KS M25 Combi set	600	50/1	179
19203201	KS M32 Combi set	600	50/1	179
19204001	KS M40 Combi set	600	50/1	179
19303201	KST M32 connector	320	100/1	179
19400101	TK ABL External fixing plates	600	100/1	260
19400201	TK ABP External fixing plates	600	10/1	260
19410001	TK DST Distance anchor set	600	100/1	259
19411001	TK MLH-55/75 Mounting plate	600	500/50	260
19500101	TK MPI-77 Mounting plate	600	200/1	258
19500201	TK MPI-97 Mounting plate	600	250/1	258
19500301	TK MPI-99 Mounting plate	600	175/1	258
19500401	TK MPI-1111 Mounting plate	600	150/1	258
19500501	TK MPI-1313 Mounting plate	600	125/1	258
19500601	TK MPI-1811 Mounting plate	600	250/1	258
19500701	TK MPI-1818 Mounting plate	600	125/1	258
19500801	TK MPI-2518 Mounting plate	600	100/1	258
19500901	TK MPI-1309 Mounting plate	600	150/1	258
19501001	TK MPI-1809 Mounting plate	600	150/1	258
19501201	TK MPI-3625 Mounting plate	600	50/1	258
19501801	TK SDR T40 Screwdriver	600	1/1	263
19505501	TK MPI-55 Mounting plate	600	200/1	258
19507501	TK MPI-75 Mounting plate	600	200/1	258
19592001	TK-BSC jig	600	100/1	
19592801	TK-ANST A1 Saw attachment	600	1/1	
19594201	TK LSA M16 Saw blade	600	1/1	
19599501	TK LFR-BS Hole cutter	600	1/1	263
19600901	TK TW-n Partition wall	600	100/1	260
19690901	TK TW-h Partition wall	600	100/1	260
19700101	TK Mounting Plate	600	1/1	258
19704901	TK TS15-49,5 Mounting rail	600	1/1	259
19706901	TS 15-68 Mounting rail	600	1/1	299
19710701	TS 15-106/2 Mounting rail	600	1/1	299
19711001	TS 15-110 Mounting rail	600	1/1	299
19713101	TS 15-131 Mounting rail	600	1/1	299
19714601	TS 15-146 Mounting rail	600	1/1	299
19718601	TS 15-186 Mounting rail	600	1/1	299
19717001	TS 15-170 Mounting rail	600	1/1	299
19722201	TS 15-222 Mounting rail	600	1/1	299
19728501	TS 15-285 Mounting rail	600	1/1	299
19708001	TK TS15-80 Mounting rail	600	1/1	259
19709201	TK TS15-92 Mounting rail	600	1/1	259
19711101	TK TS15-111 Mounting rail	600	1/1	259
19715401	TK TS15-154 Mounting rail	600	1/1	259
19806801	NS 35-68 Mounting rail	600	1/1	298
19806801	NS 35-106/2 Mounting rail	600	1/1	298
19810701	NS 35-107 Mounting rail	600	1/1	298
19811001	NS 35-110 Mounting rail	600	1/1	298
19813101	NS 35-131 Mounting rail	600	1/1	298
19814601	NS 35-146 Mounting rail	600	1/1	298
19818601	NS 35-186 Mounting rail	600	1/1	298
19817001	NS 35-170 Mounting rail	600	1/1	298
19808101	TK NS35-81 Mounting rail	600	1/1	259
19810601	TK NS35-106 Mounting rail	600	1/1	259
19814401	TK NS35-144 Mounting rail	600	1/1	256
19817101	TK NS35-171 Mounting rail	600	1/1	259
19821601	TK NS35-216 Mounting rail	600	1/1	259
19833601	TK NS35-336 Mounting rail	600	1/1	259
19833601	TK NS35-336 Mounting rail	600	50/1	
20040301	TG PC 88-6-o Empty enclosure	800	48/3	267
20040401	TG PC 1208-6-o Empty enclosure	800	54/3	271
20040501	TG PC 1212-6-o Empty enclosure	800	36/2	275
20040601	TG PC 1608-6-o Empty enclosure	800	20/2	279
20040701	TG PC 1612-9-o Empty enclosure	800	16/2	283
20040801	TG PC 2012-8-o Empty enclosure	800	12/2	285
20040901	TG PC 2015-8-o Empty enclosure	800	10/2	
20041201	TG PC 2516-9-o Empty enclosure	800	8/1	
20041301	TG PC 3023-9-o Empty enclosure	800	4/1	
20090301	TG PC 88-9-o Empty enclosure	800	48/3	269
20090401	TG PC 1208-9-o Empty enclosure	800	33/3	273
20090501	TG PC 1212-9-o Empty enclosure	800	24/2	277
20090601	TG PC 1608-9-o Empty enclosure	800	20/2	281
20090801	TG PC 2012-9-o Empty enclosure	800	10/2	287
20091201	TG PC 2516-12-o Empty enclosure	800	6/1	
20091301	TG PC 3023-11-o Empty enclosure	800	3/1	297
20100301	TG PC 88-6-to Empty enclosure	800	48/3	269
20100401	TG PC 1208-6-to Empty enclosure	800	54/3	271
20100501	TG PC 1212-6-to Empty enclosure	800	36/2	275
20100601	TG PC 1608-6-to Empty enclosure	800	20/2	279
20100701	TG PC 1612-9-to Empty enclosure	800	16/2	283
20100801	TG PC 2012-8-to Empty enclosure	800	12/2	285
20100901	TG PC 2015-8-to Empty enclosure	800	10/2	
20101201	TG PC 2516-9-to Empty enclosure	800	8/1	291
20101301	TG PC 3023-9-to Empty enclosure	800	4/1	295
20150301	TG PC 88-9-to Empty enclosure	800	48/3	267
20150401	TG PC 1208-9-to Empty enclosure	800	33/3	273
20150501	TG PC 1212-9-to Empty enclosure	800	24/2	277
20150601	TG PC 1608-9-to Empty enclosure	800	20/2	281
20150801	TG PC 2012-9-to Empty enclosure	800	10/2	287
20151201	TG PC 2516-12-to Empty enclosure	800	6/1	293
20151301	TG PC 3023-11-to Empty enclosure	800	3/1	297
20301601	WST M16/sw Twist nippel	400	1200/100	334
20302001	WST M20/sw Twist nippel	400	600/50	334
20302501	WST M25/sw Twist nippel	400	300/25	334
20340101	WST Pg 9 Twist nippel	400	1200/100	
20340201	WST Pg 11 Twist nippel	400	1000/100	
20340301	WST PG 13,5 Twist nippel	400	600/100	
20340401	WST Pg 16 Twist nippel	400	600/100	334
20341601	WST M16 Twist nippel	400	1200/100	334
20342001	WST M20 Twist nippel	400	600/50	334
20342501	WST M25 Twist nippel	400	300/25	334
20343201	WST M32 Twist nippel	400	240/20	334
20344001	WST M40 Twist nippel	400	120/20	334
20345001	WST M50 Twist nippel	400	60/10	334
20346301	WST M63 Twist nippel	400	30/5	334
20540001	GMU PS Pg 7 Lock nut	400	2400/100	

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20540101	GMU PS Pg 9 Lock nut	400	2400/100	
20540201	GMU PS Pg 11 Lock nut	400	1800/100	
20540301	GMU PS Pg 13,5 Lock nut	400	1200/100	
20540401	GMU PS Pg 16 Lock nut	400	1200/100	
20540501	GMU PS Pg 21 Lock nut	400	600/100	
20540601	GMU PS Pg 29 Lock nut	400	300/50	
20540701	GMU PS Pg 36 Lock nut	400	180/30	
20540801	GMU PS Pg 42 Lock nut	400	150/25	
20740001	GMU PA Pg 7 Lock nut	400	2400/100	
20740101	GMU PA Pg 9 Lock nut	400	2400/100	
20740201	GMU PA Pg 11 Lock nut	400	1800/100	
20740301	GMU PA Pg 13,5 Lock nut	400	1200/100	
20740401	GMU PA Pg 16 Lock nut	400	1200/100	
20740501	GMU PA Pg 21 Lock nut	400	600/100	
20740601	GMU PA Pg 29 Lock nut	400	300/50	
20740701	GMU PA Pg 36 Lock nut	400	180/30	
20740801	GMU PA Pg 42 Lock nut	400	150/25	
20841201	GMU PA M12 Lock nut	400	2400/100	339
20841601	GMU PA M16 Lock nut	400	2400/100	339
20842001	GMU PA M20 Lock nut	400	1200/100	339
20842501	GMU PA M25 Lock nut	400	600/100	339
20843201	GMU PA M32 Lock nut	400	300/50	339
20844001	GMU PA M40 Lock nut	400	300/50	339
20845001	GMU PA M50 Lock nut	400	150/25	339
20846301	GMU PA M63 Lock nut	400	150/25	339
21101601	VSS PA M16 Blanking plug	400	1200/100	335
21102001	VSS PA M20 Blanking plug	400	1200/100	335
21102501	VSS PA M25 Blanking plug	400	600/50	335
21103201	VSS PA M32 Blanking plug	400	300/50	335
21141601	VSS PS M16 Blanking plug	400	1200/100	335
21142001	VSS PS M20 Blanking plug	400	1200/100	335
21142501	VSS PS M25 Blanking plug	400	600/50	335
21143201	VSS PS M32 Blanking plug	400	300/50	335
21301601	WNI M16/sw Twist nippel	400	1200/100	334
21302001	WNI M20/sw Twist nippel	400	600/50	334
21302501	WNI M25/sw Twist nippel	400	300/25	334
21340101	PG9 Twist nippel	400	1200/100	
21340201	PG11 Twist nippel	400	1000/100	
21340301	PG13,5 Twist nippel	400	600/100	
21340401	PG16 Twist nippel	400	1200/100	
21340501	PG21 Twist nippel	400	300/50	
21340601	PG29 Twist nippel	400	150/25	
21340701	PG36 Twist nippel	400	90/15	
21340801	PG42 Twist nippel	400	48/8	
21340901	PG48 Twist nippel	400	30/5	
21341601	WNI M16 Twist nippel	400	1200/100	334
21342001	WNI M20 Twist nippel	400	600/50	334
21342501	WNI M25 Twist nippel	400	300/25	334
21343201	WNI M32 Twist nippel	400	240/20	334
21442001	GMU Pg 16-M20 Lock nut	400	1200/100	
21540101	GMU Pg 9-VK Lock nut	400	2400/100	
21540401	GMU Pg 16-VK Lock nut	400	1200/100	
21540501	GMU Pg 21-VK Lock nut	400	600/100	
21640401	SNI Pg 16 Stepped nipple	400	600/100	
21640501	SNI Pg 21 Stepped nipple	400	300/50	
21642001	SNI M20 Stepped nipple	400	600/100	
21642501	SNI M25 Stepped nipple	400	300/50	336
21643201	SNI M32 Stepped nipple	400	300/25	336
21644001	SNI M40 Stepped nipple	400	120/20	336
21646301	SNI M63 Stepped nipple	400	1/1	336
22040001	KVR Pg 7-MGM/PS/IP65 Cable gland	400	600/50	
22040101	KVR Pg 9-MGM/PS/IP65 Cable gland	400	600/50	
22040201	KVR Pg 11-MGM/PS/IP65 Cable gland	400	360/60	
22040301	KVR Pg 13,5-MGM/PS/IP65 Cable gland	400	300/50	
22040401	KVR Pg 16-MGM/PS/IP65 Cable gland	400	240/40	
22040501	KVR Pg 21-MGM/PS/IP65 Cable gland	400	120/20	
22040601	KVR Pg 29-MGM/PS/IP65 Cable gland	400	60/10	
22040701	KVR Pg 36-MGM/PS/IP65 Cable gland	400	36/6	
22240101	KVR Pg 9-MGM/PA/IP65 Cable gland	400	600/50	
22240201	KVR Pg 11-MGM/PA/IP65 Cable gland	400	360/60	
22240301	KVR Pg 13,5-MGM/PA/IP65 Cable gland	400	300/50	
22240401	KVR Pg 16-MGM/PA/IP65 Cable gland	400	240/40	
22240501	KVR Pg 21-MGM/PA/IP65 Cable gland	400	120/20	
22540001	KVR Pg 7-MGM/PA/IP68 Cable gland	400	600/50	
22540101	KVR Pg 9-MGM/PA/IP68 Cable gland	400	300/50	
22540201	KVR Pg 11-MGM/PA/IP68 Cable gland	400	300/50	
22540301	KVR Pg 13,5-MGM/PA/IP68 Cable gland	400	240/40	
22540401	KVR Pg 16-MGM/PA/IP68 Cable gland	400	150/25	
22540501	KVR Pg 21-MGM/PA/IP68 Cable gland	400	90/15	
22540601	KVR Pg 29-MGM/PA/IP68 Cable gland	400	60/10	
22540701	KVR Pg 36-MGM/PA/IP68 Cable gland	400	30/5	
22702001	KVR M20-MGM/sw Cable gland	400	300/50	338
22702101	KVR M20-GDB/MGM/sw Cable gland	400	180/30	338
22702501	KVR M25-MGM/sw Cable gland	400	150/25	338
22703201	KVR M32-MGM/sw Cable gland	400	60/10	338
22704001	KVR M40-MGM/sw Cable gland	400	30/5	338
22705001	KVR M50-MGM/sw Cable gland	400	30/5	338
22741201	KVR M12-MGM Cable gland	400	600/100	338
22741601	KVR M16-MGM Cable gland	400	450/75	338
22742001	KVR M20-MGM Cable gland	400	300/50	338
22742101	KVR M20-GDB/MGM Cable gland	400	180/30	338
22742501	KVR M25-MGM Cable gland	400	150/25	338
22743201	KVR M32-MGM Cable gland	400	60/10	338
22744001	KVR M40-MGM Cable gland	400	30/5	338
22745001	KVR M50-MGM Cable gland	400	30/5	338
22746301	KVR M63-MGM Cable gland	400	50/5	338
22762001	KVR Cable glands KVR M20	400	300/50	67
22762501	KVR Cable glands KVR M25	400	150/25	67
22763201	KVR Cable glands KVR M32	400	60/10	67
22764001	KVR Cable glands KVR M40	400	30/5	67
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23040301	AST Pg 13,5 Adapter	400	600/100	
23040401	AST Pg 16 Adapter	400	300/50	
23040501	AST Pg 21 Adapter	400	180/30	
23040601	AST Pg 29 Adapter	400	150/25	
23041601	AST M16 Adapter	400	600/50	322
23042001	AST M20 Adapter	400	600/50	322
23042501	AST M25 Adapter	400	300/50	322
23043201	AST M32 Adapter	400	150/25	322
23044001	AST M40 Adapter	400	120/20	322
23062001	AST M20-or Adapter	400	600/50	67
23062501	AST M25-or Adapter	400	300/50	67
23063201	AST M32-or Adapter	400	150/25	67
23064001	AST M40-or Adapter	400	120/20	67
23141601	VST M16 Sealing plug	400	1200/100	335
23142001	VST M20 Sealing plug	400	1200/100	335
23142501	VST M25 Sealing plug	400	600/50	335
23143201	VST M32 Sealing plug	400	600/50	335
23144001	VST M40 Sealing plug	400	300/25	355
23162001	VST M20-or Sealing plug	400	1200/100	67
23162501	VST M25-or Sealing plug	400	600/50	67
23163201	VST M32-or Sealing plug	400	600/50	67
23164001	VST M40-or Sealing plug	400	300/25	67
23180301	VST M19,7 mm Sealing plug	400	12000/1	
23190201	VST Pg 11 Sealing plug	400	1200/100	
23190301	VST Pg 13,5 Sealing plug	400	1200/100	
23190401	VST Pg 16 Sealing plug	400	900/150	
23190501	VST Pg 21 Sealing plug	400	540/90	
23190601	VST Pg 29 Sealing plug	400	300/50	
23343001	MKA 30 Adapter for mini-channel	400	600/100	17
23345401	MKA 54 Adapter for mini-channel	400	300/50	17
23544001	DST M40 Double end connector	400	120/20	
23564001	DST M40 or Double end connector	400	120/20	
24040001	KVR Pg 7-PS/IP65 Cable gland	400	720/60	
24040101	KVR Pg 9-PS/IP65 Cable gland	400	720/60	
24040201	KVR Pg 11-PS/IP65 Cable gland	400	450/75	
24040301	KVR Pg 13,5-PS/IP65 Cable gland	400	360/60	
24040401	KVR Pg 16-PS/IP65 Cable gland	400	240/40	

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24040501	KVR Pg 21-PS/IP65 Cable gland	400	150/25	
24040601	KVR Pg 29-PS/IP65 Cable gland	400	72/12	
24040701	KVR Pg 36-PS/IP65 Cable gland	400	36/6	
24040801	KVR Pg 42-PS/IP65 Cable gland	400	24/4	
24040901	KVR Pg 48-PS/IP65 Cable gland	400	24/4	
24540001	KVR Pg 7-PA/IP68 Cable gland	400	1200/100	
24540101	KVR Pg 9-PA/IP68 Cable gland	400	600/50	
24540201	KVR Pg 11-PA/IP68 Cable gland	400	300/50	
24540301	KVR Pg 13,5-PA/IP68 Cable gland	400	300/50	
24540401	KVR Pg 16-PA/IP68 Cable gland	400	150/25	
24540501	KVR Pg 21-PA/IP68 Cable gland	400	120/20	
24540601	KVR Pg 29-PA/IP68 Cable gland	400	60/10	
24540701	KVR Pg 36-PA/IP68 Cable gland	400	30/5	
24540801	KVR Pg 42-PA/IP68 Cable gland	400	24/4	
24540901	KVR Pg 48-PA/IP68 Cable gland	400	18/3	
24640001	KVR Pg 7-PA/LAG/IP68 Cable gland	400	840/70	
24640101	KVR Pg 9-PA/LAG/IP68 Cable gland	400	600/50	
24640201	KVR Pg 11-PA/LAG/IP68 Cable gland	400	360/60	
24640301	KVR Pg 13,5-PA/LAG/IP68 Cable gland	400	300/50	
24640401	KVR Pg 16-PA/LAG/IP68 Cable gland	400	240/40	
24640501	KVR Pg 21-PA/LAG/IP68 Cable gland	400	120/20	
24640601	KVR Pg 29-PA/LAG/IP68 Cable gland	400	60/10	
24640701	KVR Pg 36-PA/LAG/IP68 Cable gland	400	36/6	
24640801	KVR Pg 42-PA/LAG/IP68 Cable gland	400	24/4	
24640901	KVR Pg 48-PA/LAG/IP68 Cable gland	400	18/3	
24741201	KVR M12 Cable gland	400	600/100	
24741601	KVR M16 Cable gland	400	450/75	338
24742001	KVR M20 Cable gland	400	300/50	338
24742101	KVR M20-GDB Cable gland	400	300/50	338
24742501	KVR M25 Cable gland	400	180/30	338
24743201	KVR M32 Cable gland	400	90/15	338
24744001	KVR M40 Cable gland	400	30/5	338
24745001	KVR M50 Cable gland	400	30/5	338
24746301	KVR M63 Cable gland	400	50/5	338
24900101	PG9 Sealing washers	400	100/1	338
24901201	ADR M12 Sealing washers	400	100/1	
24901601	ADR M16 Sealing washers	400	100/1	339
24902001	ADR M20 Sealing washers	400	100/1	339
24902501	ADR M25 Sealing washers	400	100/1	339
24903201	ADR M32 Sealing washers	400	50/1	339
24904001	ADR M40 Sealing washers	400	50/1	339
24905001	ADR M50 Sealing washers	400	25/1	339
24906301	ADR M63 Sealing washers	400	25/1	339
25111201	ARI Pg 9 Adapter ring	400	50/1	
25121601	ARI Pg 11 Adapter ring	400	50/1	
25142001	ARI Pg 16 Adapter ring	400	50/1	
25152501	ARI Pg 21 Adapter ring	400	25/1	
25163201	ARI Pg 29 Adapter ring	400	25/1	
26002001	DMS M20/sw Double membrane seals	400	600/50	336
26002501	DMS M25/sw Double membrane seals	400	600/50	336
26003201	DMS M32/sw Double membrane seals	400	300/25	336
26040201	DMS Pg 11 Double membrane seals	400	600/100	
26040301	DMS Pg 13,5 Double membrane seals	400	600/100	
26040401	DMS Pg 16 Double membrane seals	400	600/100	
26040501	DMS Pg 21 Double membrane seals	400	300/50	
26041601	DMS M16 Double membrane seals	400	600/50	336
26042001	DMS M20 Double membrane seals	400	600/50	336
26042501	DMS M25 Double membrane seals	400	600/50	336
26043201	DMS M32 Double membrane seals	400	300/25	336
26043301	DMS M32/4 Double membrane seals	400	300/25	336
26240301	BST PG 13,5 Ventilation seal	400	600/100	
26240401	BST Pg 16 Ventilation seal	400	600/100	
26241201	DAE M12	400	10/1	337
26242001	BST M20 Ventilation seal	400	600/100	180
26340301	RST Pg 13,5 Conduit connector	400	180/1	
26340401	RST Pg 13,5/16 Conduit connector	400	180/1	
26440401	RST Pg 16 Conduit connector	400	180/30	
26540401	RST Pg 21 Conduit connector	400	150/25	
26540501	RST Pg 21 Conduit connector	400	120/20	

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28342001	RST M20-BS/Pg 13,5 Conduit connector	400	180/30	
28442001	RST M20-BS/Pg 16 Conduit connector	400	180/30	
28542001	RST M20-BS/Pg 21 Conduit connector	400	150/25	
28592501	RST M25-BS/Pg 21 Conduit connector	400	150/25	
28841601	RST M16 Conduit connector	400	180/30	339
28842001	RST M20 Conduit connector	400	180/30	339
28842501	RST M25 Conduit connector	400	180/30	339
28843201	RST M32 Conduit connector	400	180/30	339
30040701	VST RR Sealing plug	400	120000/1	17
30542501	KVM 025-2,5² Straight-through transition joint	100	120/1	17
30546001	KVM 060-6² Straight-through transition joint	100	10/1	17
30590701	EIB 10-L junction box	100	50/1	
30640601	UP 6-2,5² flush-mounted junction box	100	50/1	17
30690601	UP 6-L flush-mounted junction box	100	50/1	17
31040801	Mini 25-2,5² Junction box	100	40/1	14
31090801	Mini 25-L Junction box	100	40/1	14
31510701	AP 7 - 2,5² Junction box	100	50/1	12
31560701	AP 7 - L Junction box	100	50/1	12
32097001	HP 70-L Junction box	100	60/1	50
32298001	HP 80-L Junction box	100	50/1	50
32599001	HP 90-L Junction box	100	40/1	51
32690001	HP 100-L Junction box	100	20/1	51
32695001	HP 150-L Junction box	100	12/1	52
32699001	HP 190-L Junction box	100	8/1	52
33000901	RR LZA Hand hole punch	100	1/1	
33211201	i 12 - 2,5²/w Junction box	100	60/10	
33221201	i 12 -L/sw Junction box	100	60/10	15
33240701	Sd 7-2,5² Junction box	100	60/10	14
33241201	i 12-2,5² Junction box	100	60/10	15
33251201	i 12-L/gr Junction box	100	60/10	15
33261201	i 12-L/w Junction box	100	60/10	15
33270701	Sd 7 SB-L Junction box	100	60/10	14
33271201	i 12 SB-L Junction box	100	60/10	15
33290701	Sd 7-L Junction box	100	60/10	14
33291201	i 12-L Junction box	100	60/10	15
33331601	i 16-logic Junction box	100	40/5	
33341601	i 16-2,5² Junction box	100	40/5	16
33391601	i 16-L Junction box	100	40/5	16
33441201	Q 12-2,5² Junction box	100	60/10	11
33471201	Q 12 SB-L Junction box	100	60/10	11
33490401	Q 4-L Junction box	100	150/25	11
33491201	Q 12-L Junction box	100	60/10	11
34400101	ZEL 2K-12 Strain relief	100	50/5	17
34411201	2K-12-2,5²/w Junction box	100	60/1	15
34441201	2K-12-2,5² Junction box	100	60/1	15
34461201	2K-12-L/w Junction box	100	60/1	15
34491201	2K-12-L Junction box	100	60/1	15
34511201	2K-12 AB-2,5²/w Junction box	100	60/1	16
34541201	2K-12 AB-2,5 Junction box	100	60/1	16
34561201	2K-12 AB-L/w Junction box	100	60/1	16
34591201	2K-12 AB-L Junction box	100	60/1	16
40240701	WK 007-2,5² Junction box	140	60/5	54
40261701	WK 007-L/w Junction box	140	60/5	
40290701	WK 007-L Junction box	140	60/5	54
40440701	WK 040-4² Junction box	140	60/3	54
40490701	WK 040-L Junction box	140	60/3	54
40640601	WK 060-6² Junction box	140	30/3	55
40690601	WK 060-L Junction box	140	30/3	55
41040601	WK 100-10² Junction box	140	20/1	55
41090601	WK 100-L Junction box	140	20/1	55
41641201	WK 160-16² Junction box	140	12/1	86
41691201	WK 160-L Junction box	140	12/1	56
42541601	WK 250-25² Junction box	140	6/1	56
42591601	WK 250-L Junction box	140	6/1	56
45001001	WK 060/WKE2 PST Sealing set	120	1/1	
46050601	WK 060 KLS-6² Terminal	140	1/1	124
46051001	WK 100 KLS-10² Terminal	140	1/1	124
46051601	WK 160 KLS-16² Terminal	140	1/1	124
46052501	WK 007 KLS-2,5² Terminal	140	160/1	57

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46053501	WK 250 KLS-25² Terminal	140	1/1	124
48042501	Abox HA 250 Junction box	120	4/1	30
48043501	Abox HA 350 Junction box	120	4/1	30
49040201	Abox-i 025-2,5² Junction box	130	60/3	21
49040401	Abox-i 040-4² Junction box	130	60/3	23
49040601	Abox-i 060-6² Junction box	130	24/2	25
49041001	Abox-i 100-10² Junction box	130	20/2	26
49041601	Abox-i 160-16² Junction box	130	10/1	27
49042501	Abox i 250 25² Junction box	130	4/1	28
49043501	Abox-i 350-35² Junction box	130	4/1	29
49047001	Abox-i 700-70² Junction box	130	1/1	30
49048501	Abox-i 1500-150² Junction box	130	1/1	32
49049401	Abox-i 2400-240² Junction box	130	1/1	33
49058501	Abox-i 1500 DK-150² Continuity box	130	1/1	32
49059401	Abox-i 2400 DK-240² Continuity box	130	1/1	33
49070201	Abox-i 025 SB-L Junction box	130	60/3	21
49070401	Abox-i 040 SB-L Junction box	130	60/3	23
49080601	Abox-i SL-2,5² Junction box	130	24/2	37
49081001	Abox-i SL-6² Junction box	130	20/2	38
49081601	Abox-i SL-10² Junction box	130	10/1	39
49083501	Abox-i SL-16² Junction box	130	4/1	40
49090201	Abox-i 025-L Junction box	130	60/3	21
49090201	Abox-i 025-L Junction box	130	60/3	21
49090401	Abox-i 040-L Junction box	130	60/3	23
49090401	Abox-i 040-L Junction box	130	60/3	23
49090601	Abox-i 060-L Junction box	130	24/2	25
49090601	Abox-i 060-L Junction box	130	24/2	25
49091001	Abox-i 100-L Junction box	130	20/2	26
49091001	Abox-i 100-L Junction box	130	20/2	26
49091601	Abox-i 160-L Junction box	130	10/1	27
49091601	Abox-i 160-L Junction box	130	10/1	27
49092501	Abox-i 250-L Junction box	130	4/1	28
49092501	Abox-i 250-L Junction box	130	4/1	28
49093501	Abox-i 350-L Junction box	130	4/1	29
49093501	Abox-i 350-L Junction box	130	4/1	29
49140201	Abox-i 025-2,5²/sw Junction box	130	60/3	21
49140201	Abox-i 025-2,5²/sw Junction box	130	60/3	21
49140401	Abox-i 040-4²/sw Junction box	130	60/3	23
49140401	Abox-i 040-4²/sw Junction box	130	60/3	23
49140601	Abox-i 060-6²/sw Junction box	130	24/2	25
49140601	Abox-i 060-6²/sw Junction box	130	24/2	25
49141001	Abox-i 100-10²/sw Junction box	130	20/2	26
49141001	Abox-i 100-10²/sw Junction box	130	20/2	26
49141601	Abox-i 160-16²/sw Junction box	130	10/1	27
49141601	Abox-i 160-16²/sw Junction box	130	10/1	27
49143501	Abox-i 350-35²/sw Junction box	130	4/1	29
49143501	Abox-i 350-35²/sw Junction box	130	4/1	29
49190201	Abox-i 025-L/sw Junction box	130	60/3	21
49190201	Abox-i 025-L/sw Junction box	130	60/3	21
49190401	Abox-i 040-L/sw Junction box	130	60/3	23
49190401	Abox-i 040-L/sw Junction box	130	60/3	23
49190601	Abox-i 060-L/sw Junction box	130	24/2	25
49190601	Abox-i 060-L/sw Junction box	130	24/2	25
49191001	Abox-i 100-L/sw Junction box	130	20/2	26
49191001	Abox-i 100-L/sw Junction box	130	20/2	26
49191601	Abox-i 160-L/sw Junction box	130	10/1	27
49191601	Abox-i 160-L/sw Junction box	130	10/1	27
49193501	Abox-i 350-L/sw Junction box	130	4/1	29
49193501	Abox-i 350-L/sw Junction box	130	4/1	29
49240201	Abox-GT 025-2,5² Junction box	130	1/1	42
49240201	Abox-GT 025-2,5² Junction box	130	1/1	42
49240401	Abox-GT 040-4² Junction box	130	1/1	42
49240401	Abox-GT 040-4² Junction box	130	1/1	42
49240601	Abox-GT 060-6² Junction box	130	1/1	43
49240601	Abox-GT 060-6² Junction box	130	1/1	43
49241001	Abox-GT 100-10² Junction box	130	1/1	43
49241001	Abox-GT 100-10² Junction box	130	1/1	43
49250201	GHB1 Cast-resin bag	120	1/1	44
49250401	GHB2 Cast-resin bag	120	1/1	44
49250601	GHB3 Cast-resin bag	120	1/1	44
49251001	GHB4 Cast-resin bag	120	1/1	44
49251001	GHB4 B1052Cast-resin bag	120	1/1	
49390401	S-Box 040-L Junction box	130	1/1	46
49391001	S-Box 100-L Junction box	130	1/1	46
49391601	S-Box 160-L Junction box	130	1/1	47
49740201	PV 48 Junction box	650	100/5	
50001501	NAL 2m Power cord kit	600	1/1	
50002501	NAL 2m Power cord kit	600	1/1	
50004001	NAL 2m Power cord kit	600	1/1	
51003801	KD BD/Schuko Blind cover	310	1/1	
51006001	KD BD/CEE Blind cover	310	1/1	
54810501	AK PST Sealing set	310	1/1	
56273501	AK NS35-250 Mounting rail	310	1/1	182
56741201	KF 12 Hinged window	310	15/1	183
56791201	KF 12-SFR Hinged window	310	15/1	
56801201	SF 12 Inspection window	310	10/1	183
59110001	AK KS-IP30 Combi set	310	1/1	179
60040701	RKK 4/07-7x4² Terminal block housing	250	40/4	90
60041201	RKK 4/12 XL-12x4² Terminal block housing	250	30/3	92
60041801	RKK 4/18-18x4² Terminal block housing	250	14/2	93
60540401	RKK 4/05-5x4² Terminal block housing	250	25/5	90
60640401	RKK 4/08-8x4² Terminal block housing	250	40/4	90
60740401	RKK 4/10-10x4² Terminal block housing	250	40/4	90
61000701	RK 4/07 SL-7x4² Terminal block housing	250	12/3	92
61001201	RK 4/12 SL-12x4² Terminal block housing	250	14/2	93
61001801	RK 4/18 KSL-18x4² Terminal block housing	250	16/2	90
61001901	RK 4/18 SL-18x4² Terminal block housing	250	8/2	90
61002501	RK 4/25 SL-25x4² Terminal block housing	250	8/1	91
61003401	RK 4/34 SL-34x4² Terminal block housing	250	8/1	94
61005001	RK 4/50 SL-50x4² Terminal block housing	250	3/1	94
61010001	RK 4/100 SL-100x4² Terminal block housing	250	3/1	95
61040401	RKK 4/12-12x4² Terminal block housing	250	21/3	95
61240401	RKK 4/15-15x4² Terminal block housing	250	30/3	96
61390601	RK 4/12-L Terminal block housing	250	14/2	96
61440401	RKK 4/22-22x4² Terminal block housing	250	14/2	93
61500701	RK 4/07-7x4² Terminal block housing	250	12/3	94
61501201	RK 4/12-12x4² Terminal block housing	250	14/2	94
61501801	RK 4/18 K-18x4² Terminal block housing	250	16/2	95
61501901	RK 4/18-18x4² Terminal block housing	250	8/2	95
61502501	RK 4/25-25x4² Terminal block housing	250	8/1	96
61503401	RK 4/34-34x4² Terminal block housing	250	8/1	96
61505001	RK 4/50-50x4² Terminal block housing	250	3/1	97
61510001	RK 4/100-100x4² Terminal block housing	250	3/1	97
61591201	RK 4/18 K-L Terminal block housing	250	16/2	95
61691201	RK 4/18-L Terminal block housing	250	8/2	95
61695001	RK 4/50-L Terminal block housing	250	3/1	97
61990701	RK 4/07-L Terminal block housing	250	12/3	94
62003401	RKA 4/34 SL-34x4² Terminal block housing	250	1/1	98
62006801	RKA 4/68 SL-68x4² Terminal block housing	250	1/1	99
62010201	RKA 4/102 SL-102x4² Terminal block housing	250	1/1	100
62013601	RKA 4/136 SL-136x4² Terminal block housing	250	1/1	101
62503401	RKA 4/34-34x4² Terminal block housing	250	1/1	98
62506801	RKA 4/68-68x4² Terminal block housing	250	1/1	99
62510201	RKA 4/102-102x4² Terminal block housing	250	1/1	106
62513601	RKA 4/136-136x4² Terminal block housing	250	1/1	101
62591601	RK 4/25-L Terminal block housing	250	8/1	96
62591701	RK 4/34-L Terminal block housing	250	8/1	96
62692201	RK 4/100-L Terminal block housing	250	3/1	97
62990101	RKA 4/34-L Terminal block housing	250	1/1	98
62990201	RKA 4/68-L Terminal block housing	250	1/1	99
62990301	RKA 4/102-L Terminal block housing	250	1/1	100
62990401	RKA 4/136-L Terminal block housing	250	1/1	101
66510001	AP 0 closing plate	450	1/1	
66510101	AP 1 closing plate	450	1/1	
66510501	AP 5 closing plate	450	1/1	
66511601	AP 16 closing plate	450	1/1	
66513501	AP 35 closing plate	450	1/1	
66520001	TW 0 Partition wall	450	1/1	

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66520101	TW 1 Partition wall	450	1/1	
66521601	TW 16 Partition wall	450	1/1	
66523501	TW 35 Partition wall	450	1/1	
66530001	TRS 0 Partition plate	450	1/1	
66530101	TRS 1 Partition plate	450	1/1	
66540001	ES 0 End terminal	450	1/1	
66540101	ES 1 End terminal	450	1/1	
66541601	ES 16 End terminal	450	1/1	
66600201	Q 002-4² Cross-connector	450	1/1	
66600301	Q 003-4² Cross-connector	450	1/1	
66600401	Q 004-4² Cross-connector	450	1/1	
66601001	Q 010-4² Cross-connector	450	1/1	
66610201	Q 102-4²/TS15 Cross-connector	450	1/1	
66610301	Q 103-4²/TS15 Cross-connector	450	1/1	
66611001	Q 110-4²/TS15 Cross-connector	450	1/1	
66620201	Q 202-2,5² Cross-connector	450	1/1	
66620301	Q 203-2,5² Cross-connector	450	1/1	
66620401	Q 204-2,5² Cross-connector	450	1/1	
66621001	Q 210-2,5² Cross-connector	450	1/1	
66640201	Q 402-10² Cross-connector	450	1/1	
66640301	Q 403-10² Cross-connector	450	1/1	
66640401	Q 404-10² Cross-connector	450	1/1	
66641001	Q 410-10² Cross-connector	450	1/1	
66650201	Q 502-16² Cross-connector	450	1/1	
66650301	Q 503-16² Cross-connector	450	1/1	
66651001	Q 510-16² Cross-connector	450	1/1	
66670201	Q 702-35² Cross-connector	450	1/1	
66670301	Q 703-35² Cross-connector	450	1/1	
66671001	Q 710-35² Cross-connector	450	1/1	
67010001	RK 10² Terminal	450	1/1	
67016001	RK 16² Terminal	450	1/1	
67020001	RK 2,5² Terminal	450	1/1	
67035001	RK 35² Terminal	450	20/1	
67040001	RK 4² Terminal	450	100/1	
67040101	RK 4² TS15 Terminal	450	100/1	
67040501	RKD 4² Terminal	450	100/1	
67040601	RKD 4² SV Terminal	450	1/1	
67041001	KBL 4-10² Terminal	450	10/1	
67065001	URS RK1-150mm² Terminal	450	1/1	
67074001	URS RK1-240mm² Terminal	450	1/1	
67110001	RK 10²-bl Terminal	450	100/1	
67116001	RK 16²-bl Terminal	450	50/1	
67120001	RK 2,5²-bl Terminal	450	1/1	
67135001	RK 35²-bl Terminal	450	20/1	
67140001	RK 4²-bl Terminal	450	100/1	
67140101	RK 4² TS15-bl Terminal	450	100/1	
67140501	RKD 4²-bl Terminal	450	100/1	
67210001	RKSL 10² Terminal	450	80/1	
67216001	RKSL 16² Terminal	450	50/1	
67220001	RKSL 2,5² Terminal	450	1/1	
67235001	RKSL 35² Terminal	450	20/1	
67240001	RKSL 4² Terminal	450	100/1	
67240101	RKSL 4² TS15 Terminal	450	100/1	
67740001	RK-PV 4-L Terminal block housing	650	8/2	221
67740301	RK-PV 4 Terminal block housing	650	8/2	220
67745401	RK-PV 4 ÜSS Terminal block housing	650	8/2	220
67780001	RK-PV 8-L Terminal block housing	650	8/1	221
67780301	RK-PV 8 Terminal block housing	650	8/1	220
67785401	RK-PV 8 ÜSS Terminal block housing	650	8/1	220
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68100401	Handy Top-4² Terminal	450	250/1	
68100601	Handy Top-6² Terminal	450	200/1	
68300401	Handy Soft-2,5²/4² Terminal	450	250/1	
68300601	Handy Soft-6² Terminal	450	250/1	
68301001	Handy Soft-10² Terminal	450	200/1	
68301601	Handy Soft-16² Terminal	450	100/1	
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68502101	HandyGrip VG 21 Terminal	450	250/1	58
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68512101	HandyGrip VG 21 w Terminal	450	250/1	58
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69252201	HA 3552-25²/35² Main cable junction terminal	450	25/1	199
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72961201	STV 912-KN32 Socket distribution box	311	2/1	205
72990401	STV 904-L Socket distribution box	311	4/1	203
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73132201	STV 1222-S Socket distribution box	311	1/1	205
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73140801	STV 1208-K Socket distribution box	311	1/1	204
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74190301	AKi-R 4/102-L Terminal block housing	341	1/1	100
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74203401	AKi-R 4/34 Terminal block housing	341	1/1	98
74206801	AKi-R 4/68 Terminal block housing	341	1/1	99
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86038101	WKE-BS Fire protection foam	200	1/1	
86040001	WKE 200 ABL External fastening kit	200	60/1	47
86040101	WKE DÜB V4A Dowel kit	200	60/1	
86040201	WKE DÜB 1.4529 Dowel kit	200	60/1	
86050201	WKE 2-5 x 6² Cable junction and connection box	200	12/1	63
86050301	WKE 3-5 x 10² Cable junction and connection box	200	10/1	64
86050401	WKE 4-5 x 16² Cable junction and connection box	200	12/1	64
86050501	WKE 5-20 x 6² Cable junction and connection box	200	6/1	65
86050524	WKE 5-24 x 6² Cable junction and connection box	200	6/0	66
86051201	WKE 2-3 x 10² Cable junction and connection box	200	12/1	63
86051401	WKE 4-8 x 6² Cable junction and connection box	200	6/1	65
86140401	WKE 404 KE Cable junction and connection box	200	2/1	81
86141401	WKE 414 KE Cable junction and connection box	200	10/1	81
86142401	WKE 424 KE Cable junction and connection box	200	10/1	82
86220201	WKE 202 RK Terminal box	200	12/1	73
86220301	WKE 203 RK Terminal box	200	10/1	73
86220401	WKE 204 RK Terminal box	200	10/1	74

All specifications without guarantee. We reserve the right to make changes for the purpose of technical improvement

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86230201	WKE 302 RK Terminal box	200	1/1	74
86230301	WKE 303 RK Terminal box	200	1/1	75
86230401	WKE 304 RK Terminal box	200	1/1	75
86240201	WKE 402 RK Terminal box	200	12/1	76
86240301	WKE 403 RK Terminal box	200	10/1	76
86240401	WKE 404 RK Terminal box	200	10/1	77
86541401	WKE AK 14 Distribution board	220	1/1	85
86542801	WKE AK 28 Distribution board	220	1/1	85
86544201	WKE AK 42 Distribution board	220	1/1	86
86545601	WKE AK 56 Distribution board	220	1/1	86
86547001	WKE AK 70 Distribution board	220	1/1	87
87041001	Abox 700-70² Junction box	120	1/16	30
87091001	Abox 700-L Junction box	120	1/16	30
89001001	Abox PST Sealing set	120	500/1	34
89401601	Abox 160 NS Mounting rail	120	1/1	35
89403501	Abox 350 NS Mounting rail	120	1/1	35
89500601	Abox 060 MPI Mounting plate	120	50/1	35
89501001	Abox 100 MPI Mounting plate	120	50/1	35
89501601	Abox 160 MPI Mounting plate	120	25/1	35
89503501	Abox 350 MPI Mounting plate	120	20/1	35
91594501	GTB 45 Receptacle	100	100/1	
91596501	GTB 65 Receptacle junction box	100	80/1	
91910201	HW VD-64 Sealing cap	100	500/1	
92003501	HW 035 Flat socket	100	100/10	
92005001	HW 050 Socket	100	100/10	
92006501	HW 065 Branch socket	100	80/10	326
92035001	HW 050 WD Socket	100	100/10	626
92036501	HW 065 WD Branch socket	100	80/10	626
92305001	HW 050/2 Double socket	100	50/5	628
92335001	HW 050/2 WD Double socket	100	50/5	328
92404001	HW 040 Outlet socket	100	150/25	226
92507001	HW 070 Connection socket	100	60/10	327
92510001	HW VD 67 Cover	100	300/10	125
92510101	HW VD 60 Cover	100	300/10	125
92510201	HW KB Cable screw gland	100	600/100	
92512001	HW 120 Connection socket	100	10/1	327
92512101	HW LFR-120 Hole cutter	100	1/1	12
92513501	HW LFR-35 Hole cutter	100	12/1	330
92516801	HW LFR-68 Hole cutter	100	12/1	330
92517401	HW LFR-74 Hole cutter	100	12/1	330
92519901	HW LFRP-Sort Profi suitcase hole cutter	100	6/1	330
92595701	HW BS-1 Receptacle	100	50/1	
92604501	HW AS-1 Receptacle	100	80/1	
92693501	HW LFRP-35 Hole cutter	100	12/1	330
92696801	HW LFRP-68 Hole cutter	100	12/1	330
92697401	HW LFRP-74 Saw blade	100	12/1	330
92705001	HW DD Ceiling socket	100	100/10	327
92710001	HW 050 DD-VD Cover with ceiling hook	100	100/10	329
92800101	HWK 1 Terminal boxes	100	10/1	328
92800201	HWK 2 Terminal boxes	100	10/1	328
92800301	HWK 3 Terminal boxes	100	10/1	328
92810101	HWK 1-VD Cover	100	1/1	
92810201	HWK 2-VD Cover	100	1/1	
92810301	HWK 3-VD Cover	100	1/1	
92993501	HW LFR-35/SBL Spare part	100	1/1	330
92996401	HW LFR ZB Centring drill	100	1/1	330
92996801	HW LFR-68/SBL Spare part	100	1/1	330
92996901	HW LFR-74/SBL Spare part	100	1/1	330
92997001	HW LFRP-ANST Drive arbour	100	1/1	331
92997101	HW LFRP-35/SBL Spare part	100	1/1	331
92997201	HW LFRP-68/SBL Spare part	100	1/1	331
97022001	RVB 20 Conduit connection	520	100/1	129
97022501	RVB 25 Conduit connection	520	50/1	129
97023201	RVB 32 Conduit connection	520	25/1	129
97024001	RVB 40 Conduit connection	520	25/12	129
97031801	ROP 18-VST Sealing Plug	520	1500/2	112
97032301	ROP 23-VST Sealing Plug	520	750/1	112
97033001	ROP 30-VST Sealing Plug	520	300/1	112
97042501	ROK 1 conduit elbow	520	300/1	113
97043001	ROK 2 conduit elbow	520	120/1	113
97043501	ROK 3 conduit elbow	520	120/1	113
97050001	BSK 1 Blank base	520	150/1	127
97050501	BSK 2 Blank base	520	90/1	127
97051801	ROP 18 Conduit ferrule	520	210/1	112
97052301	ROP 23 Conduit ferrule	520	90/1	112
97053001	ROP 30 Conduit ferrule	520	90/1	112
97053701	ROP 37 Conduit ferrule	520	100/1	112
97054001	KUT Dome funnel	520	150/1	114
97055001	KUK Dome box	520	100/1	114
97056001	WAD Wall outlet box	520	100/1	110
97056201	WAD VD Sealing cap	520	600/100	110
97061801	KOT 18 Cone funnel	520	70/1	114
97062301	KOT 23 Cone funnel	520	60/1	114
97063001	KOT 30 Cone funnel	520	60/1	114
97063701	KOT 37 Cone funnel	520	1/1	114
97069001	VBK Connection box	520	60/1	115
97070401	DAL 4 Universal outlet cleats	520	50/1	115
97070501	DAL 1 Universal outlet cleats	520	100/1	115
97070601	DAL 2 Universal outlet cleats	520	100/1	115
97071601	UVA 90 Universal outlet	520	90/1	115
97072001	ROK 1-S conduit elbow set	520	1/1	113
97072501	ROK 2-S conduit elbow set	520	1/1	113
97073201	ROK 3-S conduit elbow set	520	1/1	113
97074801	U 71 KUT-M5 Cone funnel	520	150/1	114
97103501	U 71 FD Flat box	520	100/1	108
97104501	U 71 GRD Receptacle	520	100/1	108
97104502	U 71 GRD-D Receptacle	520	100/1	108
97104701	U 71 KUD Dome box	520	100/1	108
97106501	U 71 GVD-2 Equipment junction box	520	80/1	109
97106601	U 71 DVD-2 Equipment junction box	520	50/1	111
97124801	U 71 KUD-M5 Dome box	520	100/1	108
97136501	U 71 GVD-3 Equipment junction box	520	80/1	109
97154801	U 71 DAD Ceiling luminaire junction box	520	100/1	110
97174501	U 71 K GRD Receptacle	520	100/1	
97174801	U 71 KP-M5 Dome	520	100/1	124
97176501	U 71 K GVD-2 Equipment junction box	520	80/1	109
97176601	U 71 K DVD-2 Ceiling connection box	520	50/1	111
97186501	U 71 K GVD-3 Equipment junction box	520	80/1	109
97186601	U 71 K DVD-3 Ceiling connection box	520	50/1	111
97276001	U 71 K GRO Equipment junction box	520	75/1	109
97292501	U 71 TD-44 Deep box	520	100/1	110
97294501	U 71 TD-49 Deep box	520	100/1	110
97296001	U 71 GRO Large conduit box	520	75/1	109
97305001	U 71 Perilex Perilex® Receptacle	520	50/1	111
97308102	U 86 DVD-2 Universal Ceiling box	520	50/1	111
97331201	U 120 GRO-3 Large conduit box	520	35/1	112
97371201	U 120 K GRO-2 Large conduit box	520	40/1	112
97371301	U 120 K GRO-3 Large conduit box	520	35/1	112
97378101	U 86 K DVD-2 Universal Ceiling box	520	50/1	111
97378301	U 86 K DVD-3 Universal Ceiling box	520	50/1	111
97400101	BS 1 Receptacle	520	50/1	122
97400201	BS 2 Receptacle	520	30/1	122
97410001	BS 1 VD Sealing cap	520	150/25	126
97410201	BS 2 VD Sealing cap	520	90/15	126
97412001	BS MBR Assembly bridge	520	1000/100	131
97413001	BS ES-30 Device screw 3,5x30	520	4000/1	131
97413501	BS ES-40 Device screw 3,5x40	520	3000/1	131
97415001	BS ES-50 Device screw 3,5x50	520	2000/1	131
97443101	BS 1-BSK Blank base	520	100/1	127
97443201	BS 2-BSK Blank base	520	60/1	127
97500101	K 1 EK Installation box	520	50/1	117
97500201	K 2 EK Installation box	520	30/1	117
97510001	K1 VD Sealing cap	520	150/25	125
97510201	K2 VD Sealing cap	520	90/1	125
97600101	IBTronic H120-S1 Universal installation housing	520	10/1	144
97600201	IBTronic H120-S2 Universal installation housing	520	10/1	144
97600301	IBTronic H120-0 Universal installation housing	520	10/1	144
97600401	IBTronic H120-P Universal installation housing	520	10/1	144

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97600501	IBTronic H120-68 Universal installation housing	520	10/1	144
97600801	IBTronic H120-120/0 Universal installation housing	520	10/1	
97610101	IBTronic H120-S1-S2 Universal installation housing	520	12/1	144
97610301	IBTronic H120-S1-0 Universal installation housing	520	12/1	144
97610401	IBTronic H120-P-O Universal installation housing	520	12/1	144
97610501	IBTronic H120-68-O Universal installation housing	520	12/1	144
97620101	IBTronic H120TT-S1 Universal installation housing	520	8/1	145
97620201	IBTronic H120TT-S2 Universal installation housing	520	8/1	145
97620301	IBTronic H120TT-0 Universal installation housing	520	8/1	145
97620401	IBTronic H120TT-P Universal installation housing	520	8/1	145
97620501	IBTronic H120TT-68-0 Universal installation housing	520	8/1	145
97620801	IBTronic H120TT-120/0 Universal installation housing	20	8/1	
97630101	IBT H120TT-S1-0 Universal installation housing	520	6/1	145
97630201	IBT H120TT-S2-0 Universal installation housing	520	6/1	145
97630301	IBT H120TT-O-O Universal installation housing	520	6/1	145
97630401	IBT H120TT-P-O Universal installation housing	520	6/1	145
97630501	IBT H120TT-68-O Universal installation housing	520	6/1	145
97660401	IBTronic XL H 185 F Universal installation housing	520	6/1	142
97680101	IBTronic XL Drillbox Universal installation housing	520	6/1	142
97700101	K 0 EK Installation box	520	50/1	116
97700201	K15 EK Installation box	520	30/1	116
97710001	K0 VD Sealing cap	520	180/30	125
97710501	K15 VD Sealing cap	520	90/15	125
97810001	IBT LZA-OE Hand hole punch	520	1/1	130
97811801	IBT LZA-18 Hand hole punch	520	1/1	130
97812301	IBT LZA-23 Hand hole punch	520	1/1	130
97880801	IBT STE-LST/8 Punch sets	520	1/1	131
97881401	IBT STE-LST/14 Punch sets	520	1/1	131
97881801	IBT STE-LST/18 Punch sets	520	1/1	131
97882301	IBT STE-LST/23 Punch sets	520	1/1	131
97883001	IBT STE-LST/30 Punch sets	520	1/1	131
97883901	IBT STE-LST/39 Punch sets	520	1/1	131
97891001	IBT STE-LZA/10 Punch sets	520	1/1	130
97891401	IBT STE-LZA/14 Punch sets	520	1/1	130
97891801	IBT STE-LZA/18 Punch sets	520	1/1	130
97892301	IBT STE-LZA/23 Punch sets	520	1/1	130
97893001	IBT STE-LZA/30 Punch sets	520	1/1	
97910001	VD 75 Sealing cap	520	200/25	125
97910201	U 71 VDF Sealing cap	520	100/10	125
97910301	U 86 VDF Sealing cap	520	100/10	125
97910401	U 71 VDS Sealing cap	520	100/10	125
97910501	ES-10 Device screw	520	400/1	132
97910601	ES-18 Device screw	520	250/1	132
97910701	ES-25 Device screw	520	200/1	132
97910901	IBT DST Conduit Stopper	520	1/1	113
97911001	GWB Threaded base	520	120/1	124
97911501	DH 55 Ceiling hook	520	600/1	126
97911601	DH 90 Ceiling hook	520	600/1	126
97911701	DH 75-M5 Ceiling hook	520	600/100	126
97911801	DH 65 Ceiling hook	520	600/11	126
97911901	DH 100-M5 Ceiling hook	520	600/1	126
97912001	DH 65-M5 Ceiling hook	520	600/1	126
97912101	DH 115-M5 Ceiling hook	520	600/1	126
97912201	DH 90-M5 Ceiling hook	520	600/1	126
97912301	DH 135mm-M5 Ceiling hook	520	600/1	126
97913501	ABH 1 Spacer	520	300/1	129
97913601	KBI 1 Clip	520	2000/100	129
97915501	WED Expansion mandrel	520	90/15	130
97916001	IBT LFR Saw blade	520	120/1	131
97916201	LST Hole punch	520	1/1	136
97920501	IBT ST Conduit stopper	520	6000/1	124
97921001	VBN Compound nipple	520	900/150	125
97921201	VB 71 Interconnection frame	520	900/150	125
97921301	VB 80/85 Interconnection frame	520	450/75	125
97921401	VB 90 Interconnection frame	520	600/100	125
97921501	VB 105 Interconnection frame	520	600/1	125
97923001	ROS Conduit support	520	25/1	129
97924001	NAS-AL Spreader Nail	520	1800/300	129
97924201	NA-AL Nail	520	4800/800	128

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97924301	NA-AL/gl Nail	520	4800/800	128
97924501	HC Support clip	520	600/100	128
97924801	KR Adhesive blank	520	1200/200	128
97925001	HFL Support flange	520	300/50	128
97926001	ANSW Welding screw	520	50/1	129
97926601	DOS Double Screw	520	30/1	128
97928001	HM Magnet	520	3/1	129
97929901	HM-UNI Magnet	520	3/1	129
97930001	MA Magnetic lifter	520	1/1	129
97953001	U 71 BSK-NA Blank base	520	80/1	126
97953002	U 71 BSK-2 Blank base	520	80/1	126
97953101	K1 K2 BL Blank cleat	520	200/1	127
97953201	K0 K15 BL Blank cleat	520	200/1	127
97953501	STH-STU Support buffer	520	6000/1000	127
97953601	STH-ELP Cartridge insert	520	300/1	128
97953801	U 71 BSK-K Blank base	520	80/1	126
97953901	U 71 BSK Blank base	520	80/1	126
97957001	STH 70 Support spar	520	1000/50	128
97959001	STH 90 Support spar	520	600/50	128
97960001	STH 100 Support spar	520	600/50	128
97961001	STH 110 Support spar	520	600/50	128
97963001	STH 130 Support spar	520	500/50	128
97964001	STH 140 Support spar	520	500/50	128
97965001	STH 150 Support spar	520	400/50	128
97967001	STH 170 Support spar	520	400/50	128
97969001	STH 190 Support spar	520	400/50	128
97973001	STH 230 Support spar	520	300/50	128
97974001	STH 240 Support spar	520	200/50	128
97979001	STH 290 Support spar	520	200/50	128
97980001	NS 35-90 Mounting rail	520	1/1	146
97980101	FPD 120 Plasterboard	520	1/1	146
97980201	FPD 185 Plasterboard	520	10/1	143
97980301	LMK	520	1/1	143
98000201	K3 EK Installation box	520	15/1	117
98000401	K4 EK Installation box	520	4/1	118
98000501	K4-H EK Installation box	520	1/1	118
98000601	K4-H-P EK Installation box	520	1/1	118
98010001	K3 VD Sealing cap	520	50/10	125
98010401	K4 VD Sealing cap	520	10/1	125
98010501	K 3 TW Partition wall	520	300/1	
98010801	K8 VD Sealing cap	520	1/1	125
98011201	K12 VD Sealing cap	520	1/1	125
98101001	LB 71M GVD 100 Branch socket	520	60/1	121
98108401	LB 71M GVD 86 Branch socket	520	75/1	121
98171001	LB 71K GVD 100 Branch socket	520	60/1	121
98178401	LB 71K GVD 86 Branch socket	520	75/1	121
98181001	LB 71O GVD 100 Branch socket	520	60/1	121
98188401	LB 71O GVD 86 Branch socket	520	75/1	121
98600001	UP 015 Distribution set	300	6/1	118
98800201	K8 EK Installation box	520	1/1	119
98800301	K12 EK Installation box	520	1/1	119

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General Terms and Conditions

1. For all deliveries – including deliveries from our agents' stocks – the following terms shall be applied:

1.1 the "Warranty regulations of manufacturers of installation devices and installation systems"

1.2. "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry for Commercial Transactions between Businesses" in the version as amended by Zentralverband der Elektrotechnik und Elektronikindustrie (ZVEI) e.V.", the German Electrical and Electronic Manufacturers' Association

1.3. the "Supplementary Clause Extended Clause of Reservation of Ownership" in the version as amended by Zentralverband der Elektrotechnik und Elektronikindustrie (ZVEI) e.V.", the German Electrical and Electronic Manufacturers' Association

1.4 in addition, the following paragraphs 2 to 12.

We will happily send you the above mentioned norms, delivery terms and clauses, if required. The documents can also be downloaded from our web site (www.spelsberg.de).

We herewith reject the conditions of purchase of our customer unless they are explicitly acknowledged by us.

Our terms will be acknowledged will be considered the sole binding legal foundation when delivery is taken of objects supplied by.

Order confirmations will only be sent if requested expressly.

2. Small orders
for less than 100 euro will not be granted any discount but invoiced gross for net.

3. Normal packing
is that packing unit indicated in our catalogue. Should the ordered quantity not correspond with the quantity of pieces contained in our packing units we will delivery the best corresponding packing unit(s).

4. Sea- proof packing
Will be supplementary invoiced only in case of packing in containers.

5. Delivery freight prepaid
(freight paid, packing included) will be carried out within the territory of Germany for a net order value of more than 1,000 euro. Haulage payable at destination shall be borne by the receiver of the goods.

6. Dispatch
will always be carried out at receiver's risk, even in case of agreed delivery freight prepaid.

7. Suitability and nature of goods
Any indication and information concerning suitability, nature and application our of goods shall not discharge our customer from their own controls and tests. The customer processing our goods shall be assume liability for dispositions prescribed by law, public agencies and electric supply companies.

8. Claims
shall only be acknowledged within 8 days of the receipt of the consignment. On receipt of the goods, the person delivering the goods must confirm any visible damage to goods in transit on the relevant delivery notes.

9. Return of goods
shall be rejected unless we have given our prior acceptance. In case of non-compliance the company/person returning the goods shall assume liability for any costs and disadvantages.

10. Our payment terms
are within 10 days less 3 % cash discount or net within 30 days. If the customer is in arrears of payment, we are entitled to claim interest in the amount of the current base interest. Should the customer's solvency be doubted, in particular in case of payment in arrears, we are entitled, subject to all other claims, to demand payment in advance or guarantees or revoke already granted credit terms.

11. Place of performance
for delivery, payment and other contractual performances of both parties is Schalksmühle. Place of jurisdiction is Lüdenscheid. German law governs the relationship between the contracting parties.

12. Data protection
We are entitled to use data arising from the business relationship with our customers, regardless their origin, within the meaning of the BDSG (the German Federal Data rotection Act).

els spelsberg

VK98007-910170-0910-7

Authorised Economic Operator

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