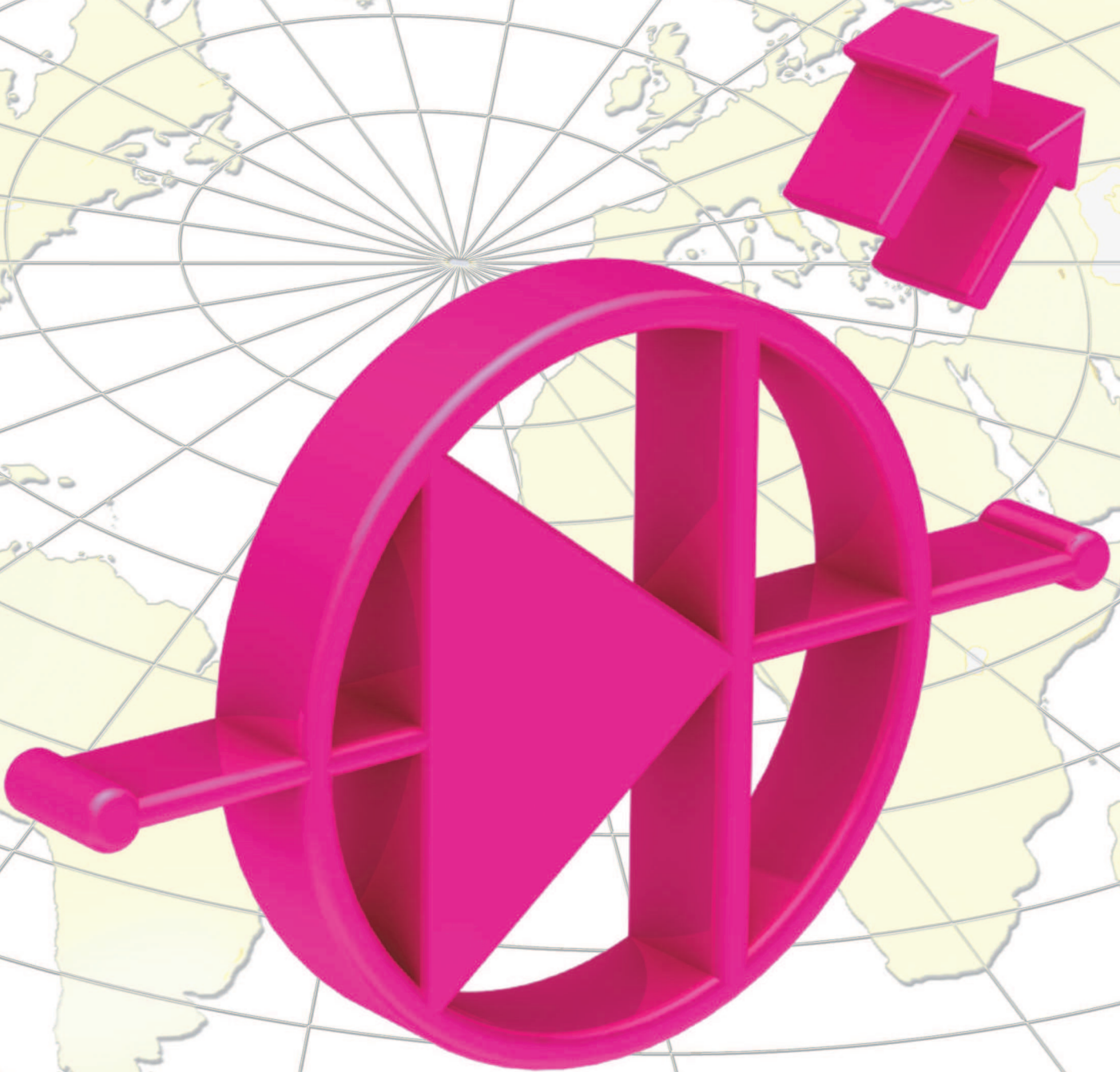




COMELETRIC

Specialized rotary and control switches

LED PILOT LIGHTS AND
SEMAPHORE INDICATORS



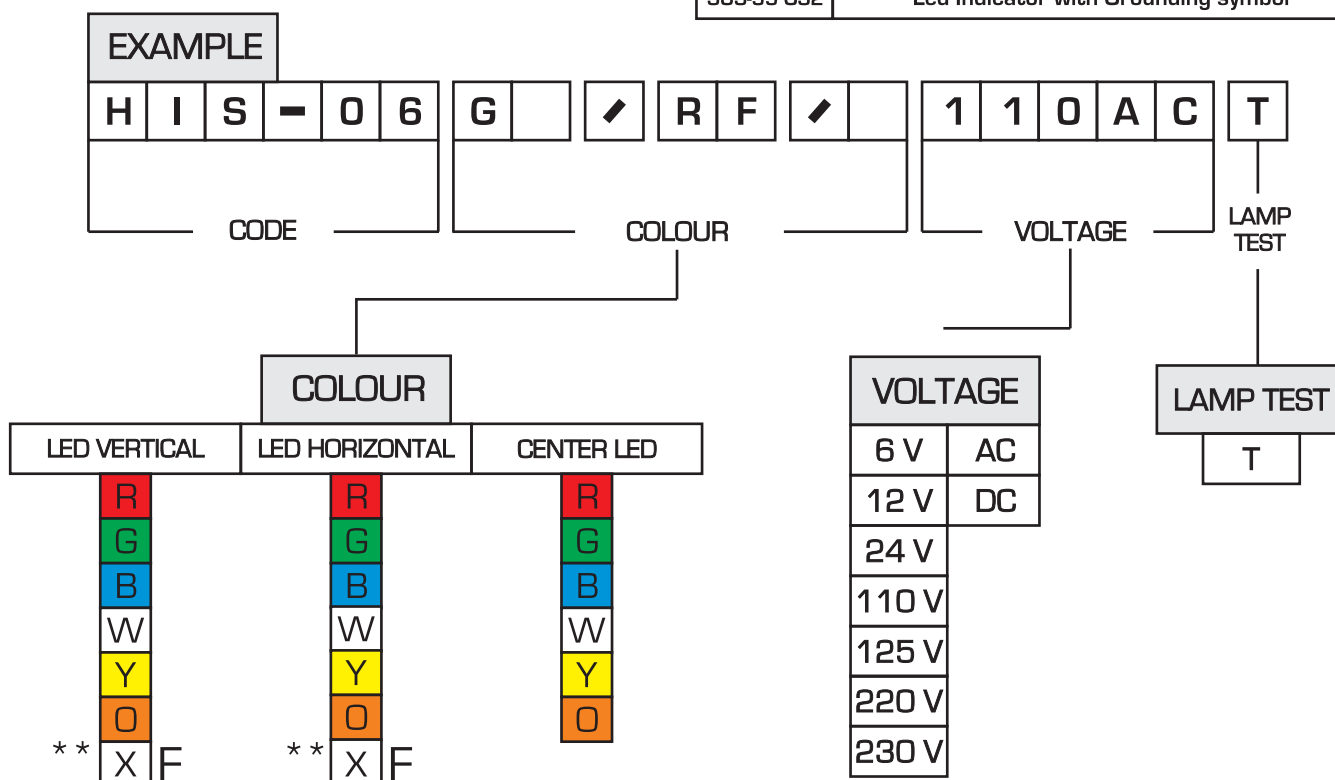
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ORDERING INFORMATION

CODE	
LED SEMAPHORE INDICATOR	
SUS - 09	Led Semaphore Indicator Round
SUS - 09 Q	Led Semaphore Indicator Square
SUS - 99	Ultra-bright Led Semaphore Indicator Round
SUS - 99 Q	Ultra-bright Led Semaphore Indicator Square
SUS - 95 L	Led Semaphore Indicator Three colours Round
SUS - 95 L Q	Led Semaphore Indicator Three colours Square
SUS - 01	Led Semaphore Indicator Round
SUS - 01 Q	Led Semaphore Indicator Square
* FASTON CONNECTION AVAILABLE <u>ONLY</u> FOR LED SEMAPHORE INDICATOR	

LED INDICATOR	
HIS - 06	Led indicator Standard light intensity
CSL - 99	Flat led indicator
HIS - 95	Ultrabright led indicator
HIS - 99	Led indicator
HIS - 99 K	Signal Light beacon
HIS - 12 K	Signal Light beacon
EIS - 96	Ultrabright Led indicator
EIS - 99	Led indicator
IS - 99	Led Indicator Higher light intensity
SHS - 06	Led Indicator Standard light intensity
KIS - 01	Led Indicator
SMS - 99.1	Led Indicator Higher light intensity
VMS - 99.1	Led Indicator Higher light intensity
LED - I - 06	Led Indicator
SUS-99 GS1	Led Indicator with Draw up symbol
SUS-99 GS2	Led Indicator with Grounding symbol



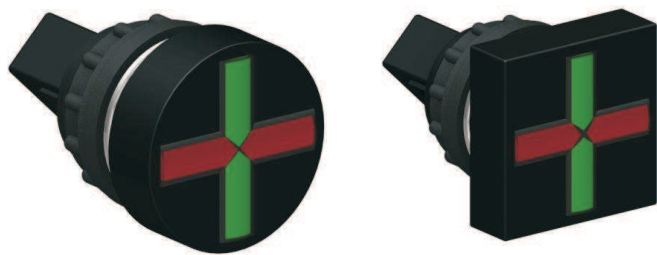
* Code and **T** for **FASTON CONNECTION** (Example: **SUS-99 T**)

** Colour and **F** : Flashing Mode (Example: **RF**, red flashing)

According to Standards: **IEC 61010-1 / IEC 60598-1 / IEC 60598-2-1**

Series Ø22mm

LED SEMAPHORE INDICATOR



Model : SUS-09

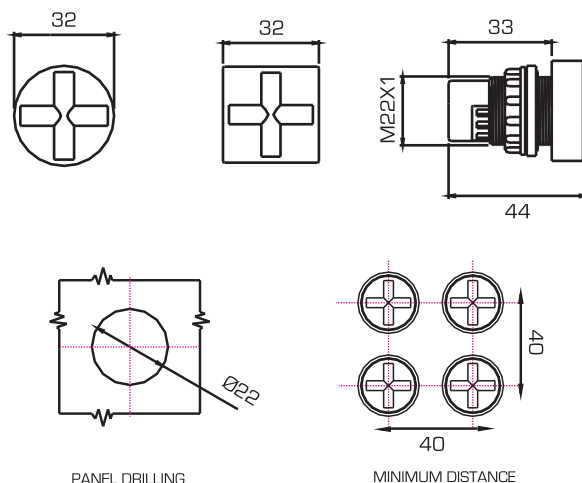
Voltage: 12 to 230V AC - DC
 Nominal current: 20mA
 Led service life: up to 100.000 hours
 Protection (front panel cover-terminal) IP65 - IP20
 Colour: ● ● [other colours on request]
 Panel thickness: max 4 mm
 Permissible wire gage: max 1,5 mm²
 Temperature operating: -25° to +60° C
 Available with **FASTON CONNECTION**

SUS 09

SUS 09 Q



DIMENSIONS



Series Ø22mm

ULTRA-BRIGHT LED SEMAPHORE INDICATOR

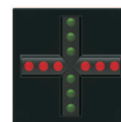
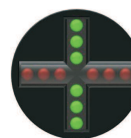


Model : SUS-99

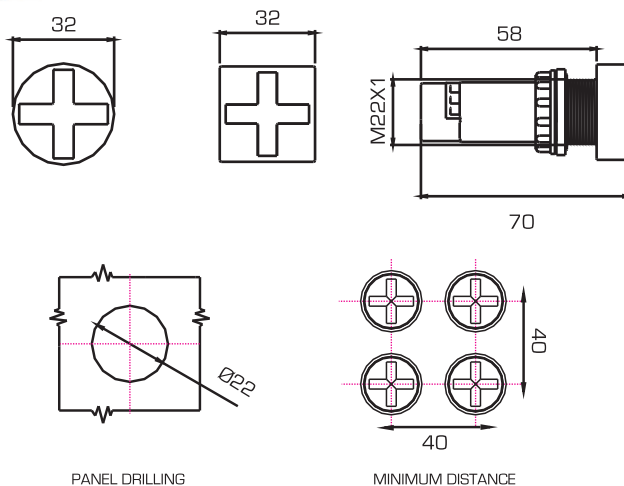
Voltage: 12 to 230V AC - DC
 Nominal current: 20mA
 Led service life: up to 100.000 hours
 Protection (front panel cover-terminal) IP65 - IP20
 Colour: ● ● [other colours on request]
 Panel thickness: max 4 mm
 Permissible wire gage: max 1,5 mm²
 Temperature operating: -25° to +60° C
 Available with **FASTON CONNECTION**

SUS 99

SUS 99 Q



DIMENSIONS

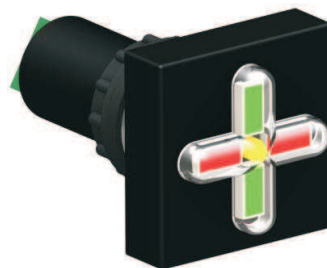


Series Ø22mm

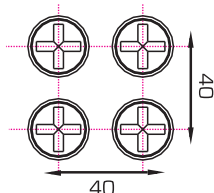
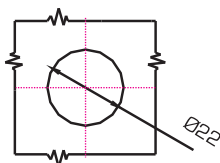
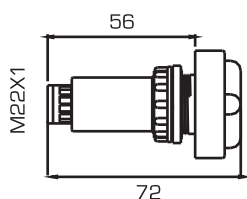
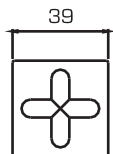
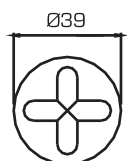
LED SEMAPHORE INDICATOR - THREE COLOURS

SUS 95 L

SUS 95 L Q



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : SUS-95 L

Voltage:	12 to 230V AC - DC
Nominal current:	20mA
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	● ● ● (other colours on request)
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C
Available with FASTON CONNECTION	

Series Ø22mm

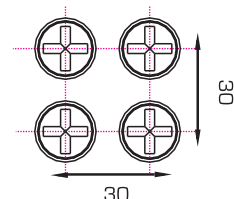
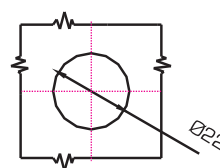
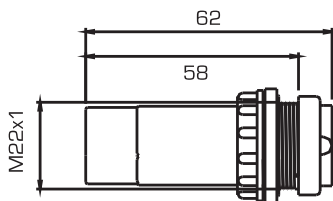
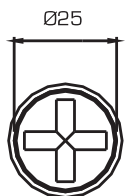
LED SEMAPHORE INDICATOR

SUS 01

SUS 01 Q



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : SUS-01

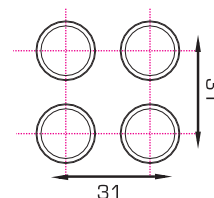
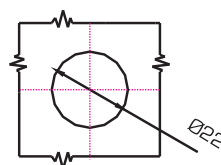
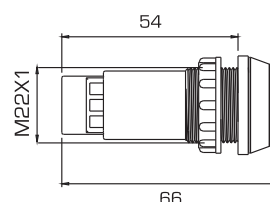
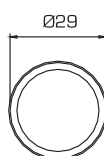
Voltage:	12 to 230V AC - DC
Nominal current:	20mA
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	● ● ● (other colours on request)
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C
Available with FASTON CONNECTION	

Series Ø22mm

LED INDICATOR - STANDARD LIGHT INTENSITY



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : HIS-06

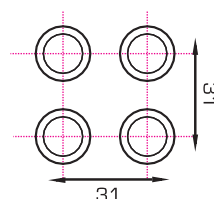
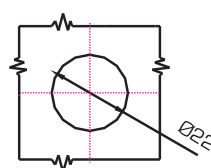
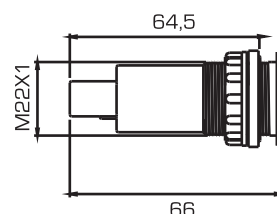
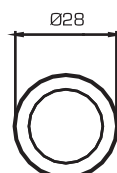
Voltage: 6 to 230V AC - DC
 Running voltage tolerance: $\pm 20\%$
 Led service life: up to 100.000 hours
 Protection (front panel cover-terminal) IP65 - IP20
 Colour: ● ● ● ● ● ●
 Panel thickness: max 4 mm
 Permissible wire gage: max 1,5 mm²
 Temperature operating: -25° to +60° C

Series Ø22mm

FLAT LED INDICATOR



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : CSL-99

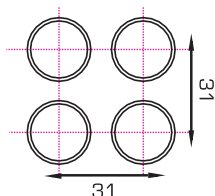
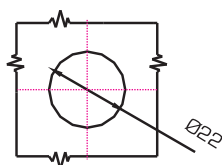
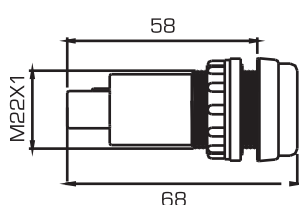
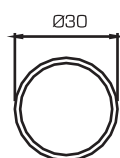
Voltage: 6 to 230V AC - DC
 Running voltage tolerance: $\pm 20\%$
 Led service life: up to 100.000 hours
 Protection (front panel cover-terminal) IP65 - IP20
 Colour: ● ● ● ● ● ●
 Panel thickness: max 4 mm
 Permissible wire gage: max 1,5 mm²
 Temperature operating: -25° to +60° C

Series Ø22mm

ULTRA-BRIGHT LED INDICATOR



DIMENSIONS



PANEL DRILLING

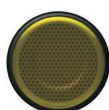
MINIMUM DISTANCE

Model : HIS-95

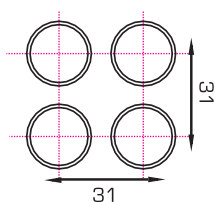
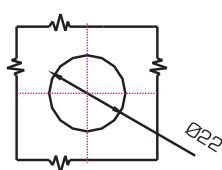
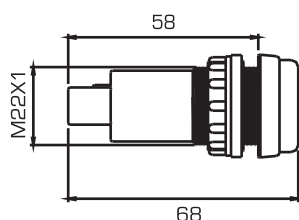
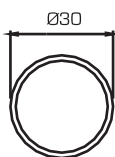
Voltage:	6 to 230V AC - DC
Running voltage tolerance:	±20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø22mm

LED INDICATOR - 1 LED



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : HIS-99

Voltage:	6 to 230V AC - DC
Running voltage tolerance:	±20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø22mm

SIGNAL LIGHT BEACON - 1 LED

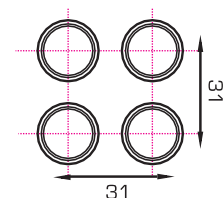
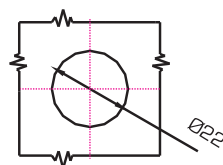
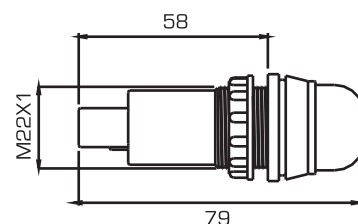
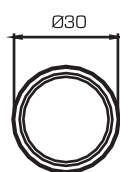


Model : HIS-99 K

Voltage: 6 to 230V AC - DC
 Running voltage tolerance: $\pm 20\%$
 Led service life: up to 100.000 hours
 Protection (front panel cover-terminal) IP65 - IP20
 Colour: ● ● ● ● ○ ●
 Panel thickness: max 4 mm
 Permissible wire gage: max 1,5 mm²
 Temperature operating: -25° to +60° C



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Series Ø22mm

SIGNAL LIGHT BEACON - 7 LED

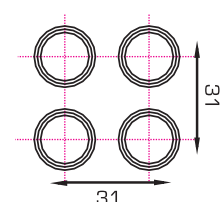
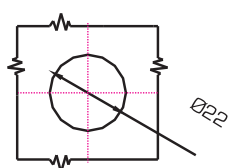
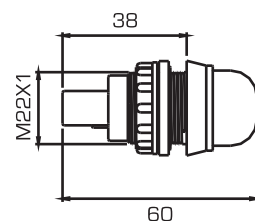
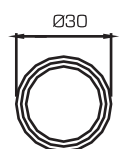


Model : HIS-12 K

Voltage: 6 to 230V AC - DC
 Running voltage tolerance: $\pm 20\%$
 Led service life: up to 100.000 hours
 Protection (front panel cover-terminal) IP65 - IP20
 Colour: ● ● ● ● ○ ●
 Panel thickness: max 4 mm
 Permissible wire gage: max 1,5 mm²
 Temperature operating: -25° to +60° C



DIMENSIONS



PANEL DRILLING

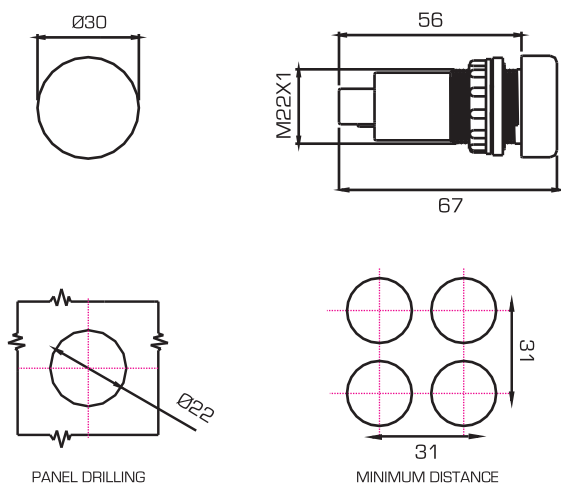
MINIMUM DISTANCE

Series Ø22mm

ULTRA-BRIGHT LED INDICATOR - 6 LED



DIMENSIONS



Model : EIS-96

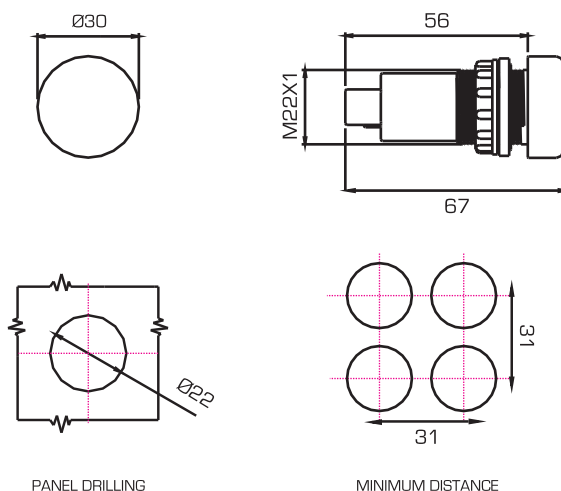
Voltage:	6 to 230V AC - DC
Running voltage tolerance:	± 20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 10 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø22mm

LED INDICATOR - 1 LED



DIMENSIONS



Model : EIS-99

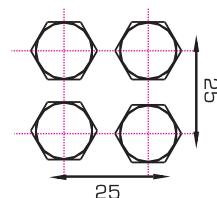
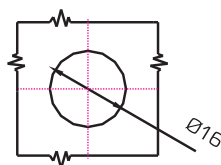
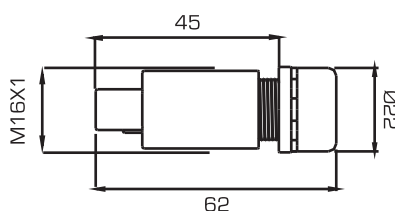
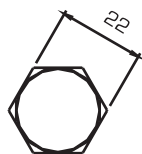
Voltage:	6 to 230V AC - DC
Running voltage tolerance:	±20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 10 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø16mm

LED INDICATOR - HIGHER LIGHT INTENSITY



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : IS-99

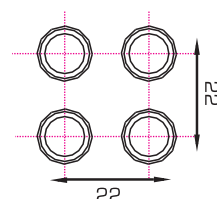
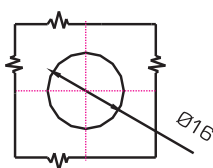
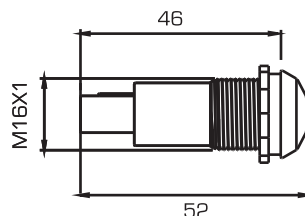
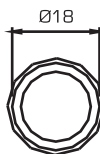
Voltage:	12 to 230V AC - DC
Running voltage tolerance:	± 20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø16mm

LED INDICATOR - STANDARD LIGHT INTENSITY



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : SHS-06

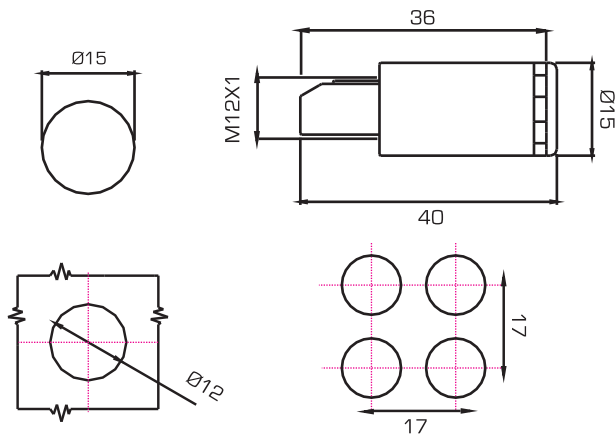
Voltage:	12 to 230V AC - DC
Running voltage tolerance:	±20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø12mm

LED INDICATOR



DIMENSIONS



PANEL DRILLING

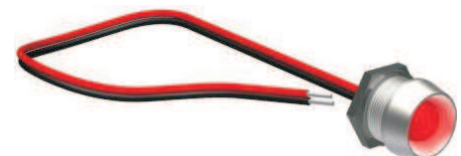
MINIMUM DISTANCE

Model : KIS-01

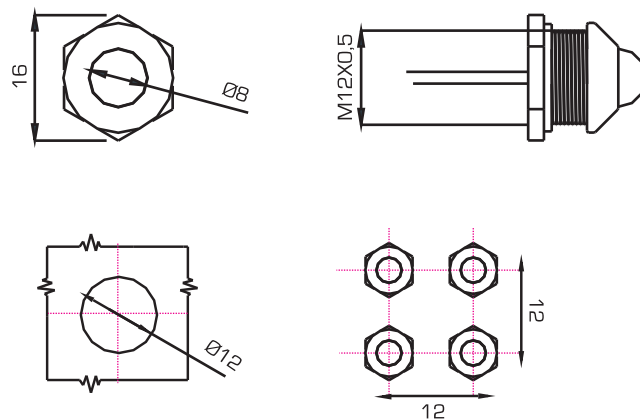
Voltage:	12 to 230V AC - DC
Running voltage tolerance:	± 20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø12mm

LED INDICATOR



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Model : LED I 06

Voltage:	5 to 24V AC - DC
Running voltage tolerance:	±20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	
Panel thickness:	max 3 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C

Series Ø8mm

LED INDICATOR

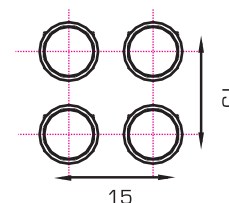
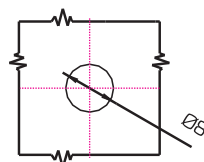
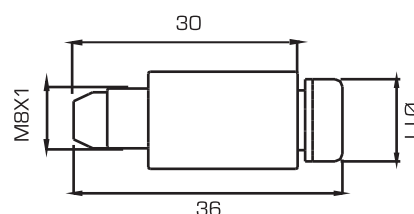
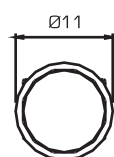


Model : SMS-99.1

Voltage:	6 to 230V AC - DC
Running voltage tolerance:	± 20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	● ● ● ● ● ●
Panel thickness:	max 3 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C



DIMENSIONS

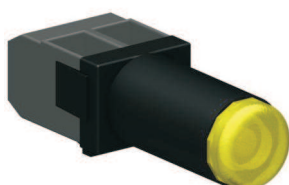


PANEL DRILLING

MINIMUM DISTANCE

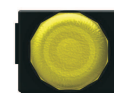
Series Ø5mm

LED INDICATOR - HIGHER LIGHT INTENSITY

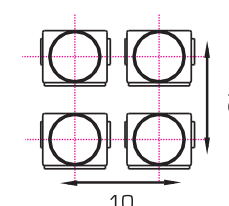
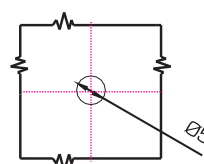
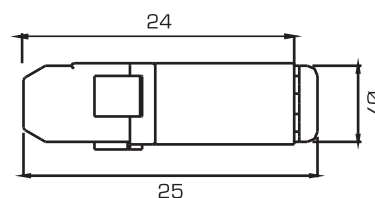
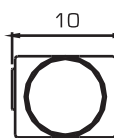


Model : VMS-99.1

Voltage:	6 to 230V AC - DC
Running voltage tolerance:	±20%
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	● ● ● ● ● ●
Panel thickness:	max 3 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C



DIMENSIONS



PANEL DRILLING

MINIMUM DISTANCE

Series Ø22mm

LED INDICATOR WITH DRAW UP AND GROUNDING SYMBOL

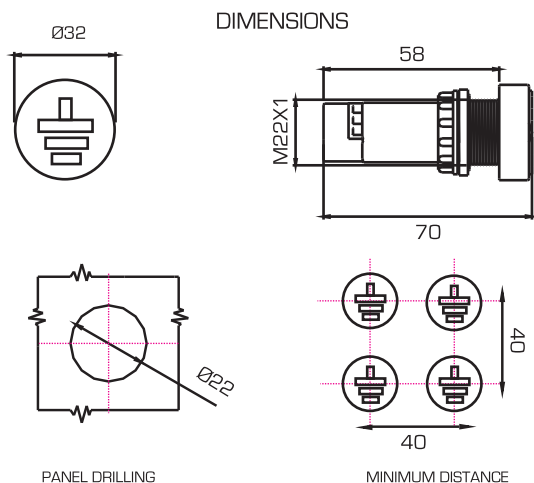
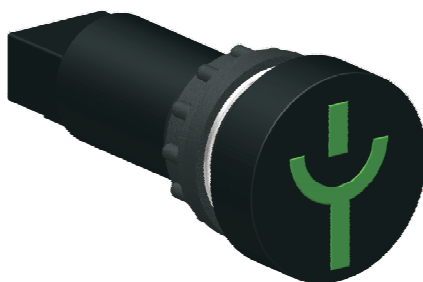
SUS-99 GS 01

SUS-99 GS 02



DRAW UP

GROUNDING

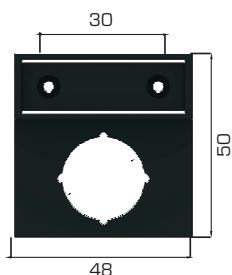


Model : SUS-99 GS

Voltage:	12 to 230V AC - DC
Nominal current:	20mA
Led service life:	up to 100.000 hours
Protection (front panel cover-terminal)	IP65 - IP20
Colour:	● ●
Panel thickness:	max 4 mm
Permissible wire gage:	max 1,5 mm ²
Temperature operating:	-25° to +60° C
Available with FASTON CONNECTION	

Accessories

IDENTIFICATION PLATE



REDUCTION



R22/30

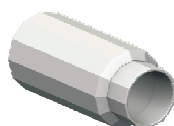


R22/25

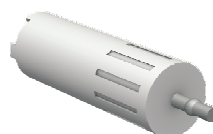
SPECIAL SPANNER FOR FITTING



M22



M12/16



M16

Series Ø16mm

BUTTON CONTROL



Model : OT - 05 *

PUSH-BUTTON + SWITCHING UNIT

Voltage: max 230V AC
 Nominal current: 5 A (10 A) AC ; 0,2 A DC
 Protection (front panel cover-terminal) IP65 - IP00
 Panel thickness: max 4 mm
 Connection method: FASTON 2,8 mm²

LIGHTING UNIT

Voltage: 12V to 230V AC , DC
 Nominal current: max 20 mA
 Protection: IP20
 Connecting conductor: max 1,5 mm²

* Model

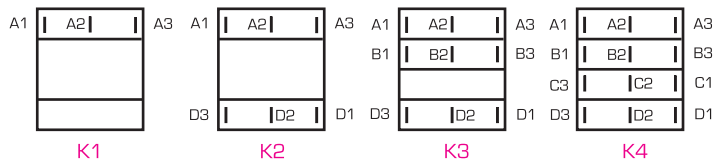
OTPN-05: Button control illuminated, momentary.

OTPA-05: Button control illuminated, push & push.

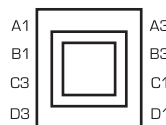
OTNN-05: Button control non illuminated, momentary.

OTNA-05: Button control non illuminated, push & push.

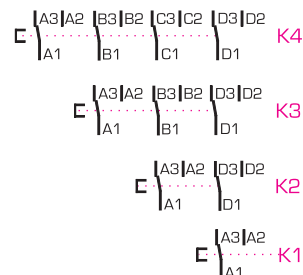
SWITCHING CONTACTS



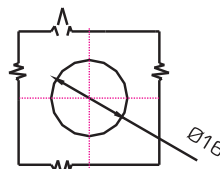
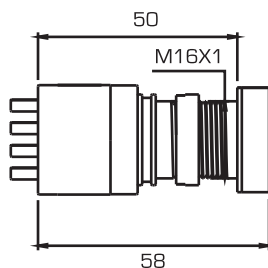
LIGHTING UNIT



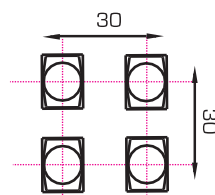
SWITCHING CONTACTS IN ZERO POSITION



DIMENSIONS



PANEL DRILLING



MINIMUM DISTANCE

O T P N - 0 5 - Q - G / - K 2 - 2 2 0 A C - 5

P	ILLUMINATED
N	NON-ILLUMINATED
LIGHTING	

Q	ROUND
	SQUARE
DESIGN	

K1	ONE UNIT
K2	TWO UNITS
K3	THREE UNITS
K3	FOUR UNITS
NUMBER OF SWITCHING UNITS	

AC	ALTERNATING
DC	DIRECT
SUPPLY TYPE	

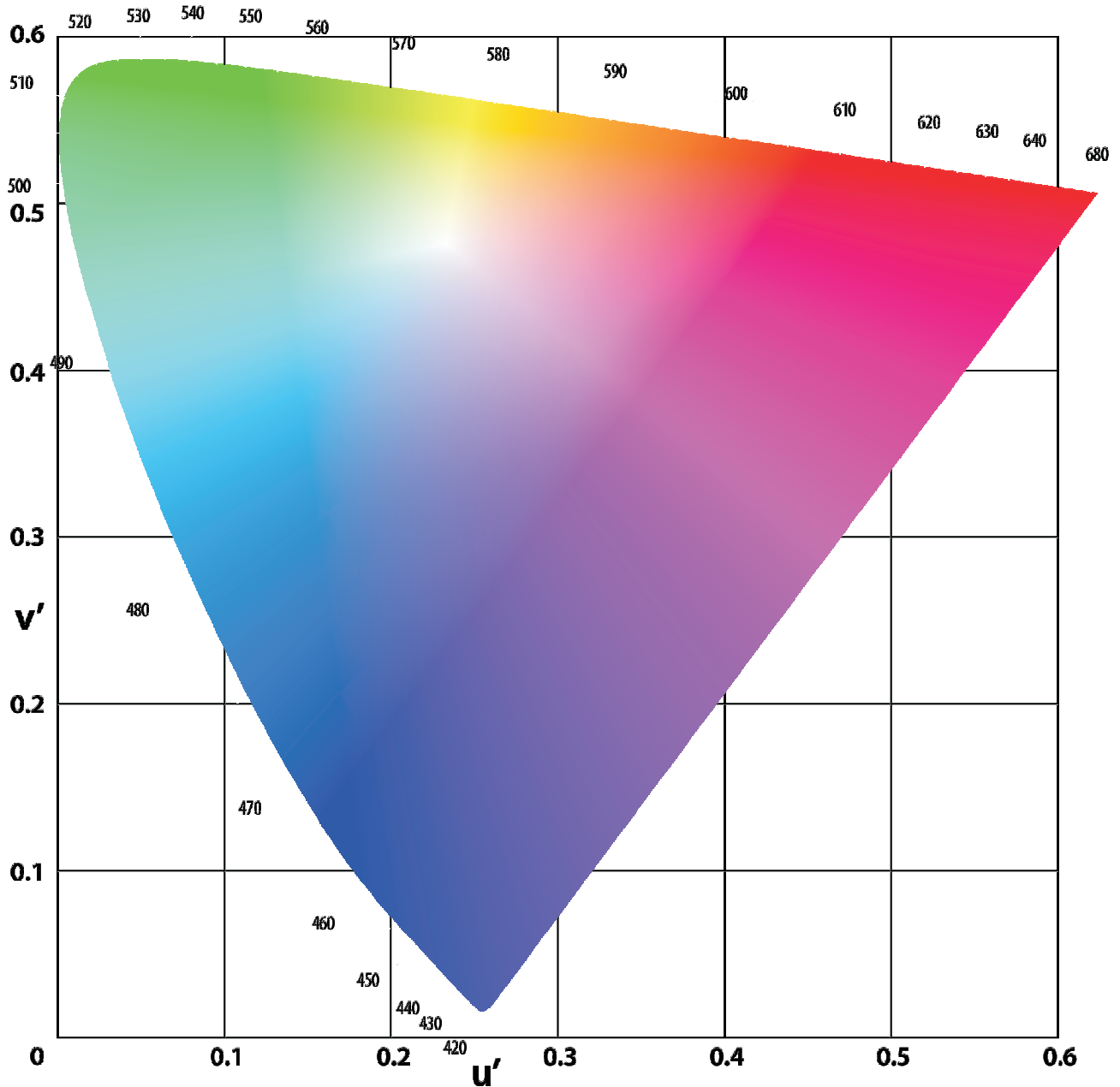
A	PUSH-PUSH
N	MOMENTARY
LOCKING	

R	M	(Milk)
G	B	
B	O	
W	Y	
COLOUR TOP or LED		

12V
24V
60V
110V
125V
220V
VOLTAGE

5	5A AC
12	12A AC
SWITCHING UNIT	

CIE 1931 - COLOUR SPACE CHROMATICITY DIAGRAM





LED PILOT LIGHTS 07-13



UNI EN ISO 9001/2008



IEC-EN 60947



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