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Short Form Catalog

Industrial Control Components

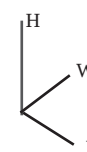
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Safety Limit Switches

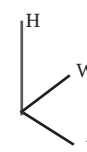
Product Family	SMN4	SND4	SN4	SND2
Product Picture 				
Body Dimensions (mm) LxWxH	30 x 30 x 45	30 x 31x 62	30.5 x 32 x 62	50.5 x 32.5 x 50.5
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic	Zinc alloy	Fiber-reinforced plastic
Characteristics	- Conform to EN50047 - Miniature size - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG11	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	- EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entries (2 opening): M16, PG13.5, 1/2NPT, M20
Contact Configuration (available in snap and slow action)	1NO/1NC, 2NO, 2NC	1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP65 / NEMA 4, 4X, 6	IP67 / NEMA 4, 4X, 6	IP67 / NEMA 4, 6	IP65 / NEMA 4, 4X
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc
Certificates				

Product Family	SN2	SND6	SN61	SN63
Product Picture 				
Body Dimensions (mm) LxWxH	52 x 33 x 64	40.5 x 40 x 74	40 x 42 x 78	57 x 36 x 70
Enclosure Material	Zinc alloy	Fiber-reinforced plastic	Zinc alloy	Zinc alloy
Characteristics	- EN50047 compatible - 2 or 3 conduit opens - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20, 1/2NPT	- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20, 1/2NPT	- Compatible to EN50041 - 2 conduit opens - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20
Contact Configuration (available in snap and slow action)	1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP67 / NEMA 4, 4X, 6	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc
Certificates				



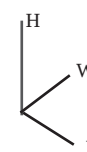


Product Family	HMS Heavy Duty NEMA Style	HLS Heavy Duty NEMA Style	HES Explosion-proof	SN62
Product Picture 				
Body Dimensions (mm) LxWxH	42 x 44.6 x 80	42 x 44.6 x 102.5	69 x 53.5x 155.5	40 x 40.4 x 69.3
Enclosure Material	Zinc alloy	Zinc alloy	Aluminum alloy	Aluminum alloy
Characteristics	- NEMA style heavy duty - Plug-in style - Cable entry: M20, 1/2NPT	- NEMA style heavy duty - Plug-in style - Cable entry: M20, 1/2NPT	- NEMA style heavy duty - Explosion-proof - Cable entry: M20, 1/2NPT, 3/4NPT	- Compatible to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20
Contact Configuration	1NO/1NC, 2NO/2NC	1NO/1NC, 2NO/2NC	1NO/1NC, 2NO/ 2NC	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP67 /NEMA 4,6	IP67 /NEMA 4,6	IP67 / NEMA 4,6,7,9	IP67 /NEMA 4, 6
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator	20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc
Certificates				

Product Family	SN31 Pre-wired (IP67)	SN32 Pre-wired (IP67)	SM31 Modular(IP67)	SM32 Modular(IP67)
Product Picture 				
Body Dimensions (mm) LxWxH	30 x 16 x 50	40 x 16 x 50	30 x 16 x 50	30 x 16 x 50
Enclosure Material	Zinc alloy	Zinc alloy	Zinc alloy	Zinc alloy
Characteristics	- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 20mm	- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 25mm	- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 20mm	- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 25mm
Contact Configuration	1NO/1NC (snap or slow action)	1NO/1NC (snap or slow action)	1NO/1NC, 2NO, 2NC, 2NO/1NC, 2NC/1NO, 2NO/2NC (snap or slow action)	1NO/1NC, 2NO, 2NC, 2NO/1NC, 2NC/1NO, 2NO/2NC (snap or slow action)
IP/NEMA Ratings	IP67 /NEMA 4, 6	IP67 /NEMA 4, 6	IP67 /NEMA 4, 6	IP67 /NEMA 4, 6
Contact Ratings	A300/Q300	A300/Q300	B300/R300	B300/R300
Actuator	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc
Certificates				



Product Family	SNB Crane Limit Switches	SNH Crane Limit Switches	SN9 Enclosed Limit Switches	SN9-V Enclosed Limit Switches
Product Picture 				
Body Dimensions (mm) LxWxH	77 x 35.6 x 81	85 x 53 x 85	86 x 25.5 x 44.6	86 x 25.5 x 44.6
Enclosure Material	Zinc alloy	Zinc alloy	Aluminum alloy	Aluminum alloy
Characteristics	- Positive opening contact - Galvanically separated contacts - Cable entry: M20, 1/2NPT PG13.5	- Positive opening contact - Galvanically separated contacts - Cable entry: 1/2NPT, M20 PG13.5	- Large wiring enclosure - High repeatability - Large breaking power - Cable entry: 1/2NPT, M20	- Large wiring enclosure - High repeatability - Large breaking power - Cable entry: 1/2NPT, M20
Contact Configuration	4NC	2NO/2NC,4NO,4NC	SPDT	SPDT
IP/NEMA Ratings	IP66 / NEMA 4	IP54 / NEMA 5	IP65 / NEMA 4	IP65 / NEMA 4
Contact Ratings	A600/Q300	A600/Q300	15A, 20A, 25A (* 480V)	15A, 20A, 25A (* 480V)
Actuator	double-cross rods	actuator heads including: roller lever, adj. roller lever, rod, double-cross rods	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc
Certificates	CE	CE	cULus CE	cULus CE

Product Family	SN1 Precision Limit Switches	SN1-H Precision Limit Switches	SN7 Enclosed Limit Switches	SN7-W Enclosed Limit Switches
Product Picture 				
Body Dimensions (mm) LxWxH	44.5 x 18 x 32.4	44.5 x 18 x 32.4	54 x 21.4 x 43	54 x 21.4 x 43
Enclosure Material	Zinc alloy	Zinc alloy	Plastic (94-V0)	Plastic (94-V0)
Characteristics	- Compact size - High sealability - High sensitivity - Build-in cable gland - Cable gland fit 6-9mm dia. cable wires	- Compact size - High sealability - High sensitivity - M12 quick connector	- Compact size - Build-in cable gland - Fit 8.5 -10.5mm cables	- Compact size - Build-in cable gland - Fit 8.5 -10.5mm cables
Contact Configuration	SPDT	SPDT	SPDT	SPDT
IP/NEMA Ratings	IP67 / NEMA 4,6	IP67 / NEMA 4,6	IP64	IP67 / NEMA 4,6
Contact Ratings	5A 250VAC / 5A 30VDC	5A 250VAC / 5A 30VDC	10A 250VAC	10A 250VAC
Actuator	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc
Certificates	cULus CE CCC	cULus CE CCC	cULus CE CCC	cULus CE CCC

Safety Switches

Product Family	SMN4191 Key Interlock Switches	SND4191 Key Interlock Switches	SND2191 Key Interlock Switches	SND-K Key
Product Picture				
Body Dimensions (mm) LxWxH	30 x 30 x 45	30 x 31x 62	50.5 x 32.5 x 50.5	
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic	Stainless steel
Characteristics	- Conform to EN50047 - Miniature size - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG11	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20	- EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	- Apply to SND2,SND4
Contact Configuration	1NO/1NC, 2NC/1NO	1NO/1NC, 2NC/1NO	1NO/1NC, 2NC/1NO	
IP/NEMA Ratings	IP67 /NEMA 4,4X,6	IP67 / NEMA 4,4X	IP65 / NEMA 4,4X	
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	
Actuator	Three actuating keys available	Three actuating keys available	Three actuating keys available	
Certificates				

Product Family	SSD6191 Solenoid Key Interlock	SND4181 Rotary Hinged	SN-K2 Key	SN-K1/K4 Key
Product Picture				
Body Dimensions (mm) LxWxH	40 x 46 x 194	40 x 42 x 78		
Enclosure Material	Fiber-reinforced plastic	Zinc alloy	Stainless steel	Stainless steel
Characteristics	- Solenoid: 24V, 120 or 240V - Positive opening contact - Power-to-lock or power-to-unlock - Optional indicator light - Cable entry: M20x1.5 (3)	- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20	- Apply to SN6,SSD6191	- Apply to SN6,SSD6191
Contact Configuration	2NO/2NC, 3NC/1NO	1NO/1NC, 2NC/1NO		
IP/NEMA Ratings	IP66 /NEMA 4,4X	IP67 / NEMA 4, 6		
Contact Ratings	A600/Q300	A600/Q300		
Actuator		Three actuating keys available		
Certificates				

Safety Switches

Product Family	SND4181 Rotary Hinged	SND4182 Hinged Safety	SND41-R With Reset	SN6-R With Reset
Product Picture				
Body Dimensions (mm) LxWxH	30 x 31x 62	30 x 31x 62	30 x 31x 62	40 x 42 x 78
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic	Zinc alloy
Characteristics	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	- Compatible to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20	- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT
Contact Configuration	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP67 / NEMA 4,4X, 6	IP67 / NEMA 4,4X, 6	IP67 / NEMA 4,4X, 6	IP67 / NEMA 4,6
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator			20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	actuator heads including: plunger,roller,roller lever
Certificates				

Product Family	SND6-R With Reset	SN4-R With Reset	SND2-R With Reset	SN2-R With Reset
Product Picture				
Body Dimensions (mm) LxWxH	40.5 x 40 x 74	30.5 x 32 x 62	50.5 x 32.5 x 50.5	52 x 33 x 64
Enclosure Material	Fiber-reinforced plastic	Zinc alloy	Fiber-reinforced plastic	Zinc alloy
Characteristics	- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	- Compatible to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20	- Compatible to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20
Contact Configuration	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP67 / NEMA 4,6	IP67 / NEMA 4,6	IP65 / NEMA 4,4X	IP67 / NEMA 4,6
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator	actuator heads including: plunger,roller,roller lever	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	20+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc
Certificates				



Cable Pull Switches

Product Family	SND4170	SN6170	SN2170	SN6271
 Actuating force				
Body Dimensions (mm) LxWxH	30 x 31x 62	40 x 42 x 78	52 x 33 x 64	40 x 40.4 x 69.3
Enclosure Material	Fiber-reinforced plastic	Zinc alloy	Zinc alloy	Aluminum alloy
Characteristics	- Max span 5 meters (16 ft) - Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M20, PG13.5 1/2NPT	- Max span 15 meters (49 ft) - Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20	- Max span 5 meters (16 ft) - Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT (x3)	- Max span 30 meters (98 ft) - Compatible to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20
Contact Configuration	1NO/1NC, 2NO,2NC,3NO,3NC 2NO/1NC, 2NC/1NO	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NO,2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NO,2NO, 2NC,3NO,3NC, 2NO/1NC, 2NC/1NO
IP/NEMA Ratings	IP67 /NEMA 4,4X,6	IP67 / NEMA 4,6	IP67 / NEMA 4,6	IP67 /NEMA 4,6
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator				actuator can be on the left or right side.
Certificates				

Product Family	CP7170	CP8171	HLS-1A-70	HES-1A-70 Explosion-proof
 Product Picture				
Body Dimensions (mm) LxWxH	72 x 61 x 120	100 x 61 x 120	42 x 44.6 x 102.5	69 x 53.5x 155.5
Enclosure Material	Aluminum alloy	Aluminum alloy	Zinc alloy	Aluminum alloy
Characteristics	- Max span 80 meter (262 ft) - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts	- Max span 80 meter (262 ft) - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts	- Max span 30 meter (98ft) - Heavy duty body	- Max span 30 meter (98 ft) - Heavy duty body - Explosion-proof
Contact Configuration	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO	1NO/1NO, 2NO/2NC	1NO/1NO,2NO/2NC
IP/NEMA Ratings	IP66 /NEMA 4	IP66 / NEMA 4	IP67 / NEMA 4,6	IP67 /NEMA 4, 6, 7, 9
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator		actuator can be on left or right or both direction	actuator can be on the left or right side.	actuator can be on the left or right side.
Certificates				

Limit Switches and Neutral Switch

Product Family	AZ8 Limit Switches	SMN5 Limit Switches	SN5 Limit Switches	S-6098 *****
Product Picture				
Body Dimensions (mm) LxWxH	28 x 25 x 64	33 x 33x 60.5	33 x 34 x 60.6	80 x 140 x 40
Enclosure Material	Zinc cast base/plastic cover	Zinc alloy	Zinc alloy	Galvanized steel enclosure
Characteristics	- Compact size - Premolded flexible cable gland	- All metal construction - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG11	- Pre-molded flexible cable gland for fast and simple wiring termination - Highly rigid construction	- Self-cleaning contacts - Automatic safety tripping mechanism
Contact Configuration	1NO/1NC	1NO/1NC, 2NO,2NC (*****)	1NO, 1NC, 1NO/1NO	1NC,1NO,2NC,2NO
IP/NEMA Ratings	IP65 /NEMA 4	IP66 / NEMA 4	IP65	IP40
Contact Ratings	A300 (10A/250V)	A600/Q300	A600/Q300	
Actuator	plunger,roller,roller lever, rod, spring wire, cat whisker, wobble stick	plunger,roller,roller lever, rod, spring wire, cat whisker, wobble stick	plunger,roller,roller lever, rod, spring wire, wobble stick	
Certificates				

Product Family	SSD4 Latching Limit Switch	SND-LAT Latching Limit Switch	GPS-1 Neutral switch	GPS-2 Reverse switch
Product Picture				
Body Dimensions (mm) LxWxH	40 x 35 x 106	30 x 30 x 62	31 x 27 x 27	31 x 27 x 27
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic	Zinc alloy	Zinc alloy
Characteristics	- Conform to EN50047 - Positive opening contact - Remote reset - Galvanically separated contacts - 3-Conduit entries: M16	- Conform to EN50047 - Positive opening contact - With reset - Galvanically separated contacts - Conduit entries:M16, PG13.5,1/2NPT, M20	- Electrically Life:1000000 - Mechanically Life:5000000	- Electrically Life:1000000 - Mechanically Life:5000000
Contact Configuration	1NO/1NC,2NO, 2NC, 3NO 3NC,2NC/1NO	1NO/1NC, 2NO,2NC,3NO,3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NC	1NO
IP/NEMA Ratings	IP66	IP67 / NEMA 4,4X, 6	IP67	IP67
Contact Ratings	A600/Q300	A600/Q300	5A/32VDC	5A/32VDC
Actuator		actuator heads including: plunger,roller,		
Certificates				

Micro Switches

Product Family	Z-15/20/25G Micro Switches	ZY-10G Micro Switches	S-13/14 Snap Switches	S-19/20 Snap Switches
Product Picture				
Body Dimensions (mm) LxWxH	49.2 x 17.5 x 24	49.2 x 17.4 x 26.5	46.3 x 15.8 x 16.3	46.3 x 15.8 x 28.6
Enclosure Material	Phenolic	Phenolic	Phenolic	Phenolic
Characteristics	- Long service life - Wide choice of head	- Long-life mechanism - Low cost - High temperature rating	- Long-life mechanism - Low cost - High temperature rating	- Long-life mechanism - Low cost - High temperature rating
Contact Configuration	SPDT	2NO,2NC	1NO, 1NC, 1NO/1NO	2NO, 2NC, 2NO/2NO
IP/NEMA Ratings	IP40	IP40	IP20	IP20
Contact Ratings	15A,20A,25A (0-480V)	10A(0-250V)	15A,20A,25A (0-480V)	15A,20A,25A (0-480V)
Actuator	actuator heads including: plunger,roller, lever, panel mount, roller lever etc		button, lever, roller lever, panel mount	button, lever, roller lever, panel mount
Certificates				

Product Family	SW3 Micro Switches	SLD-7 Sealed Micro Switches	V-10G/V-15G Micro Switches	SXP Door Interlock
Product Picture				
Body Dimensions (mm) LxWxH	64 x 21 x 32.5	35 x 11 x 17.2(28.8)	27.8 x 10.3 x 13.1	30 x 12.4 x 30 (33.6)
Enclosure Material	Phenolic	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)
Characteristics	- Long-life mechanism - Low cost - High temperature rating	- Long service life - Prewired	- Long service life - Wide choice of head	- Long service life - Pull to test function
Contact Configuration	1NO/1NC or 2NO/2NC	SPDT	SPDT	SPDT
IP/NEMA Ratings	IP40	IP67 / NEMA 4,4X, 6	IP40	IP40
Contact Ratings	15A,20A,25A (0-480V)	10/15A 250V	10/15A 250V	A300 (10A, 300V)
Actuator		button or lever	10+ actuator heads including: plunger,roller,roller lever,rod, spring wire etc	
Certificates				

Door Contact / Actuator

Product Family	EDC-51/52 Door Contact	EDC-61/62 Door Contact	EDC-71/72 Door Contact	EDC-8 Door Contact
Product Picture				
Body Dimensions (mm) LxWxH	52 x 16(19) x 31.5	50 x 16(19) x 24.5	44 x 18.6 x 43	52 x 18 x 30
Enclosure Material	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)
Characteristics	- Self-cleaning double break contact for long service life - Positive opening contact - Quiet functioning	- Self-cleaning double break contact for long service life - Positive opening contact - Quiet functioning	- Self-cleaning double break contact for long service life - Positive opening contact - Quiet functioning	- Self-cleaning double break contact for long service life - Positive opening contact - Quiet functioning
Contact Configuration	1NC	1NC	1NC	1NC
IP/NEMA Ratings	IP20	IP20	IP20	IP20
Contact Ratings	2A/230VAC; 2A/200VDC	2A/230VAC; 2A/200VDC	2A/230VAC; 2A/200VDC	2A/230VAC; 2A/200VDC
Actuator	DCA-18, DCA-21, DCA-24 DCA-S, DCA-F, DCA-F2	DCA-18, DCA-21, DCA-24 DCA-S, DCA-F, DCA-F2	DCA-18, DCA-21, DCA-24 DCA-S, DCA-F, DCA-F2	DCA-18, DCA-21, DCA-24 DCA-S, DCA-F, DCA-F2
Certificates				

Product Family	EDC-92 Door Contact	DCA-18/21/24 Actuator	DCA-S Actuator	DCA-F/F2 Actuator
Product Picture				
Body Dimensions (mm) LxWxH	40 x 18 x 40	41 x (18/21/24) x 12	40 x 28 x 9.5	40 x 28 x 9.5
Enclosure Material	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)
Characteristics	- Self-cleaning double break contact for long service life - Positive opening contact - Quiet functioning	- Apply to EDC5, EDC6, EDC7, EDC8, EDC9	- Apply to EDC5, EDC6, EDC7, EDC8, EDC9	- Apply to EDC5, EDC6, EDC7, EDC8, EDC9
Contact Configuration	1NC			
IP/NEMA Ratings	IP20			
Contact Ratings	2A/230VAC; 2A/200VDC			
Actuator	DCA-18, DCA-21, DCA-24 DCA-S, DCA-F, DCA-F2			
Certificates				

Indicator Lights and 22mm Operators

Product Family	IL-1	IL-2	IL-3	IL-4
Product Picture		 M8x0.5	 M12x1	
	Indicator lights	Indicator lights	Indicator lights	Indicator lights
Mounting Hole Diameter	5/16" (8mm)	8.2mm	12.2mm	1/2" (12.7mm)
Characteristics	- Available colors: red,blue,green,amber	- Available colors: red, blue, green,amber	- Available colors: red, blue, green,amber	- Available colors: red, blue, green,amber
Lamp Voltage	6, 12, 24, 48, 120V, 240V	6, 12, 24, 48, 120V, 240V	6, 12, 24, 48, 120V, 240V	6, 12, 24, 48, 120V, 240V
Contact Ratings				
IP/NEMA Ratings	IP40 (IP65 with seal)	IP40 (IP65 with seal)	IP40 (IP65 with seal)	IP40
Certificates	c  US 	c  US 	c  US 	c  US 

Product Family	IL-5	IL-6	MB22-FP	MB22-S2
Product Picture				
	Indicator lights	Indicator lights	pushbuttons	2 position selectors
Mounting Hole Diameter	3/4" (18mm)	22mm	22mm	22mm
Characteristics	- Available colors: red,blue,green,amber	- Available colors: red, blue, green,amber, white	- Available colors: red, blue, green,amber, black - 1NO/1NC	- Available colors: red, blue, green,amber, black - 1NO/1NC or 1NO/1NO
Lamp Voltage	6, 12, 24, 48, 120V, 240V	6,12,24,48,120,240,380,600V		
Contact ratings				
IP/NEMA Ratings	IP40 (IP65 with seal)	IP40 (IP65 with seal)	IP40	IP40
Certificates	c  US 	c  US 		

Product Family	MB22-MP	MB22-ET	PB22-EP/FP	PB22-S/SL
Product Picture				
	Mushroom Pushbuttons	E-stop, Turn release	Illuminated Pushbuttons	Illuminated Selectors
Mounting Hole Diameter	22mm	22mm	22mm	22mm
Characteristics	- Available colors: red,blue,green,amber - 1NO/1NC	- Available colors: red, blue, green,amber - 1NO/1NC	- Plastic or metal ring - Available colors: red,blue,green,amber, black - Standard and illuminated	- Plastic or metal ring - Available knob colors: red,blue,green,amber, black - Standard and illuminated
Lamp Voltage	6, 12, 24, 120, 240V		6, 12, 24, 120, 240V	6, 12, 24, 120, 240V
Contact Ratings	A300/Q300	A300/Q300	A600/Q600	A600/Q600
IP/NEMA Ratings	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)
Certificates			c  US 	c  US 



22mm Operators

Product Family	PB22-MP	PB22-ET/ES	PB22-SK	PB22-MF
Product Picture				
	Mushroom Pushbuttons	Emergency Stop	Key Selector Switches	ON/OFF Pushbuttons
Mounting Hole Diameter	22mm	22mm	22mm	22mm
Characteristics	- Plastic or metal ring - Available colors: red, blue, green, amber, black - Standard and illuminated	- Plastic or metal ring - Push-pull or turn-reset	- Plastic or metal ring - 2 or 3 position - Maintained or momentary	- Plastic or metal ring - Standard or with indicator
Lamp Voltage	6, 12, 24, 120, 240V	6, 12, 24, 120, 240V		6, 12, 24, 120, 240V
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	A600/Q600
IP/NEMA Ratings	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)
Certificates	cULus CE	cULus CE	cULus CE	cULus CE

Product Family	PBM22-FP/EP	PBM22-S/SL	PBM22-SK	PBM22-JS
Product Picture				
	Pushbuttons	Selector Switches	Key Selector Switches	Joystick
Mounting Hole Diameter	22mm	22mm	22mm	22mm
Characteristics	- Flush or extended button - Available button colors: red, blue, green, amber, black - Standard and illuminated	- Flush or extended button - Available knob colors: red, blue, green, amber, black - Standard and illuminated	- 2 or 3 position - Maintained or momentary	
Lamp Voltage	6, 12, 24, 120, 240V	6, 12, 24, 120, 240V		
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	A600/Q600
IP/NEMA Ratings	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)
Certificates	cULus CE	cULus CE	cULus CE	cULus CE

Product Family	PBM22-MP	PBM22-ET/ES	PBM22-MF	PBM22-PL
Product Picture				
	Mushroom pushbuttons	Emergency Stop	ON/OFF Pushbuttons	Pilot Lights
Mounting Hole Diameter	22mm	22mm	22mm	22mm
Characteristics	- Available knob colors: red, blue, green, amber, black	- Push-pull, turn-reset or key reset		- Available colors: red, blue, green, amber, clear
Lamp Voltage				6, 12, 24, 120, 240V
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	
IP/NEMA Ratings	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)	IP40 (or IP65)
Certificates	cULus CE	cULus CE	cULus CE	cULus CE

30mm Operators

Product Family	PBM30-FP/EP/GP	PBM30-S/SL	PBM30-MP	PBM30-ES/ET
Product Picture				
	Pushbuttons	Selector Switches	Mushroom Buttons	Emergency Stop
Mounting Hole Diameter	30mm	30mm	30mm	30mm
Characteristics	- Plastic or zinc die cast body - Available button colors: red, blue, green, amber, black, white, yellow - Extend, Flush or Guarded	- Plastic or zinc die cast body - Available knob colors: red, blue, green, amber, black, white, yellow - Maintained or momentary - 2, 3, 4 positions	- Plastic or zinc die cast body - Available colors: red, blue, green, amber, black, white, yellow	- Plastic or zinc die cast body - Styles: push-pull
Lamp Voltage				
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	A600/Q600
IP/NEMA Ratings	IP65	IP65	IP65	IP65
Certificates	cULus CE	cULus CE	cULus CE	cULus CE

Product Family	PBM30-SK	PBM30-BG	PBM30-JS	PBM30-FP/EP-D/T
Product Picture				
	Key Selector Switches	Break-Glass Switches	Joy Stick Switches	Illuminated Pushbuttons
Mounting Hole Diameter	30mm	30mm	30mm	30mm
Characteristics	- Maintained or momentary - 2, 3, 4 positions	- Come with replacement glass discs	- Plastic or zinc die cast body - 3 or 5 positions - Maintained or momentary	- Plastic or zinc die cast body - Available colors: red, blue, green, amber, white, yellow, clear
Lamp Voltage				6, 12, 24, 48, 120, 240, 380, 600V
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	A600/Q600
IP/NEMA Ratings	IP65	IP65	IP65	IP65
Certificates	cULus CE	cULus CE	cULus CE	cULus CE

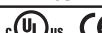
Product Family	PBM-GP-D	PBM30-MIP	PBM30-PTL	PBM30-VR
Product Picture				
	Illuminated pushbuttons	Maintained/Interlock	Push-to-test Pilot Lights	Potentiometers
Mounting Hole Diameter	30mm	30mm	30mm	30mm
Characteristics	- Plastic or zinc die cast body - Available button colors: red, blue, green, amber, white, yellow, clear	- Plastic or zinc die cast body - Available button colors: red, blue, green, amber, black, white, yellow	- Plastic or zinc die cast body - Available colors: red, blue, green, amber, white, yellow, clear	- Available in: 1K, 2.5K, 5K, 10K, 25K
Lamp Voltage	6, 12, 24, 48, 120, 240, 380, 600V	6, 12, 24, 48, 120, 240, 380, 600V	6, 12, 24, 48, 120, 240, 380, 600V	
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	A600/Q600
IP/NEMA Ratings	IP65	IP65	IP65	IP65
Certificates	cULus CE	cULus CE	cULus CE	cULus CE



Control Stations/Pendant Stations and Enclosures

Product Family	CSP-22	CSZ-22	CSD	CSB
Product Picture				
	22mm Control Stations	22mm Control Stations	Control Stations	Pendant Stations
Dimensions (mm)	22mm mounting holes	22mm mounting holes	52 x 55 x 97 (131)	57 x 76 x117
Characteristics	- Robust fiber reinforced plastics - Available 1 to 5 holes	- Zinc or aluminum die cast - Available 1 to 6 holes	- Steel base and plastic cover - 1 or 3 button - Interlock, maintained options are available	- Robust fiber reinforced plastics - Available in red, yellow or black - Interlock and maintained options are available
Contact Ratings	A600/Q600	A600/Q600	A600/P600	A600/P600
IP/NEMA Ratings	IP65 / NEMA 4/4X	IP65 / NEMA 4	IP20 / NEMA 1	IP65 / NEMA 4/4X
Certificates				

Product Family	CSN	CSH	CSE	CSG-22
Product Picture				
	Control Stations	Pendant Control Stations	Pendant Control Stations	Pendant Control Stations
Mounting Hole Diameter	70 x 83 x110	53 x 74 x292	44 x 70 x 276	Various
Characteristics	- Zinc die cast body - Interlock and maintained options are available	- Robust fiber reinforced plastics - 1-speed or 2-speed - Interlock options - Optional E-stop button	- Robust fiber reinforced plastics - 1-speed or 2-speed - Interlock options	- Robust fiber reinforced plastics - Up to 12 switch functions - 1-speed or 2-speed
Contact Ratings	A600/P600	A600/P600	A600/P600	A600/Q600
IP/NEMA Ratings	IP65 / NEMA 4	IP65 / NEMA 4/4X	IP65 / NEMA 4/4X	IP65 / NEMA 4/4X
Certificates				

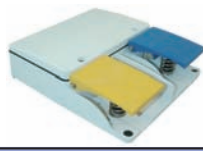
Product Family	800 700	TL50 TL70 TL90	CB	TU TG TH TC
Product Picture				
	Visual Signal/Rotating Beacons	Signaling Towers	Alarm Bells	Terminal Blocks
Dimensions (mm)	Various	50mm, 70mm, 90mm	4, 6, 8, 10 inches	various
Characteristics	- Available in following color: red,blue,green,amber, clear - LED, Inandescent or strobe - Flashing or steady - Surface mount or pipe mount	- Available in following color: red,blue,green,amber, clear - LED, Inandescent or strobe - Flashing or steady - Sound module	- Availa in red and gray - Voltages: 6, 12, 24, 120, 240, 380V	- Available 1 to 22 position - Current capacity: 15 to 150A
IP/NEMA Ratings	IP65	IP65	Indoor and Outdoor	
Certificates				



Industrial and Medical Foot Switches

Product Family	FS-1	FS-81	FS-9	FSC-3
Product Picture				
	Light Duty	Light to Medium Duty	Medium Duty	Medium to Heavy Duty
Dimensions (mm)	70 x 21.5 x 103.5	108 x 31 x 132	70 x 36 x 80	89 x 54 x 142.5
Characteristics	- With nonskid base pad and foot treadle pad - Available in front and rear hinged model - Maintain style available - Stainless steel available	- Robust glass fiber reinforced plastics or zinc die cast body - Custom color available - SPDT, DPDT or 2-stage - Push-on/push-off available	- Robust glass fiber reinforced plastics or zinc die cast body - Custom color available - SPDT	- Zinc die cast body - Available in 1 or 2 pedals - SPDT, DPDT or 2-stage - Push-on/push-off available
Contact ratings	10A,15A 250VAC	10A,15A 250VAC	10A,15A,20A,25A 250V	10A,15A,20A,25A 250V
IP/NEMA Ratings	IP20 (or IP68)	IP20 (or IP68)	IP20 (or IP68)	IP65 (or IP68)
Certificates				

Product Family	FS-5	FS-61G	FS-62G	FAS-1
Product Picture				
	Heavy Duty	Heavy Duty	Heavy Duty	Air Switches
Dimensions (mm)	157 x 140 x 237	164 x 157 x 248	275 x 151 x 254	117 x 32 x 71
Characteristics	- Iron cast based with aluminum alloy die cast body - SPDT, DPDT or 2-stage - Options: maintained, anti-trip	- Robust aluminum alloy die cast body - SPDT, DPDT or 2-stage - Options: maintained, anti-trip, pressure point, variable speed	- Robust aluminum alloy die cast body - SPDT, DPDT or 2-stage - Options: maintained, anti-trip, pressure point	- Available in following color: red, blue, green, amber - 2-position - 1NO or 1NC
Contact Ratings	20A, 25A, 250VAC	10A, 600V, A600/Q300	10A, 600V, A600/Q300	15A,20A,25A 250V
IP/NEMA Ratings	IP65 / NEMA 4	IP65 / NEMA 4	IP65 / NEMA 4	IP68 / NEMA 6, 6P
Certificates				

Product Family	FS-81-SP	FS-62	FS-82-SP	FS-72
Product Picture				
	Medical Footswitches	Medical Footswitches	Medical Footswitches	Medical Footswitches
Dimensions (mm)	290 x 34 x 135	192 x 62 x 220	214 x 38 x 108	222x 60 x 147
Characteristics	- Robust glass fiber reinforced plastics or zinc die cast body - Available 1-5 pedals - Custom color available - SPDT, DPDT or 2-stage - Medical 60601-1 Certified Also available: * USB foot switch * RF wireless * Bluetooth wireless	- Robust aluminum alloy die cast body - SPDT, DPDT or 2-stage - Custom Color - Potentiometer option - Medical 60601-1 Certified	- Robust glass fiber reinforced plastics or zinc die cast body - Custom color available - SPDT, DPDT or 2-stage - Medical 60601-1 Certified	- Robust glass fiber reinforced plastics body - Rock left and right - Medical 60601-1 Certified
Contact Ratings	10A, 300V, 5A/25V~, 1A/60VDC	10A, 600V, 5A/25V~, 1A/60VDC	10A, 300V, 5A/25V~, 1A/60VDC	10A/250V, 5A/25V~, 1A/60VDC
IP/NEMA Ratings	IP20 (or IPX8)	IP65	IP20 (or IPX8)	IP20 (or IPX8)
Certificates				



Proximity Sensors

Product Family	SLS	SLC		
Product Picture				
	Inductive Proximity Sensors	Inductive Proximity Sensors		
Dimensions (mm)	17x17, 25x25, 30x30, 40x40	M8, M12, M18, M30		
Characteristics	- Shielded and non-shielded - 10-36VDC and 20-250VAC - Reverse polarity protection - Short circuit protection - Red LED indicators	- Shielded and non-shielded - 10-36VDC and 20-250VAC - Reverse polarity protection - Short circuit protection - Red LED indicators - Cable or M12 connector		
Contact Ratings	200mA	200mA		
IP/NEMA Ratings	IP67	IP67		
Certificates				



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