

SUNS[®]

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Safety Limit Switches



Safety Switches



ATEX/EXX Switches



Micro Switches



Push Buttons
Indicator Lights



Toggle Switches



Rocker Switches



Sensor and Controls



Elevator Interlocks



Pendants/Control Stations



Outdoor Power
Equipment Controls



Load Cells



Proximity Sensors



Signaling Devices



Foot Switches



Industrial Joysticks



Vehicle Controls



Remote Control



CANBUS Controls



2025

Industrial Control Components

<http://www.suns-usa.com>

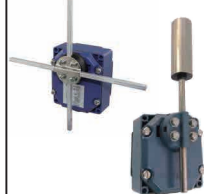
Safety Limit Switches



Product Family	SMN/SMN4	SND4/SN4	SND2/SN2	SND6/SN6	SN62
Product Picture	 Plastic Metal	 Plastic Metal	 Plastic Metal	 Plastic Metal	 Metal
Dimensions (mm)	SMN: 26 x 34 x 21 SMN4: 30 x 30 x 45	30.5 x 32 x 62	SND2: 50.5 x 32.5 x 50.5 SN2: 52 x 33 x 64	40.5 x 40 x 74	40 x 40.4 x 69.3
Contact Configuration	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	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP66 / NEMA 4, 4X, 6	IP67 / NEMA 4, 6	IP67 / NEMA 4, 4X, 6	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6
Product Family	SN63	SND4-DT	SN5/SMN5	HMS/HLS	HNS
Product Picture	 Metal	 4-pin Deutsch Connector	 Metal	 Metal	 Metal Stainless steel
Dimensions (mm)	57 x 36 x 70	Various	33 x 33x 60.5	HMS: 42 x 44.6 x 80 HLS: 42 x 44.6 x 102.5	42 x 44.6 x 102.5
Contact Configuration	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NC, 2NO, 2NC	1NO/1NC, 2NO, 2NC (Snap action or Slow action)	HMS: 1NO/1NC HLS: 1NO/1NC, 2NO/2NC	1NO/1NC, 2NO/2NC
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6	IP66(NEMA 4,4X,6)	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6
Product Family	CP8104	SN1	SN9	SP9	SF9
Product Picture	 Metal	 Metal	 Metal	 Metal	 Metal
Dimensions (mm)	100 x 61 x 120	44.5 x 18 x 32.4	86 x 25.5 x 44.6	93 x 51.3 x 65	102.2 x 33 x 54.8
Contact Configuration	1NO/1NC, 2NO, 2NC, 3NO/3NC, 4NO/4NC	SPDT	SPDT/DPDT	SPDT/DPDT	SPDT/DPDT
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6	IP60 or IP66 (NEMA 4)	IP65 / NEMA 4	IP65 / NEMA 4
Product Family	AZ8	6098	SN6173(LS1)	SN6373(LS2)	HEN
Product Picture	 Metal Base	 Metal	 Metal	 Type LS	 Stainless Steel
Dimensions (mm)	28 x 25 x 64	80 x 40 x 140	Replacing ECCO LS1	Replacing GAL LS	66 x 25 x 25
Contact Configuration	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NC, 1NO, 2NC, 2NO	1NO/1NC, 2NO/2NC	1NO/1NC, 2NO/2NC	1NO/1NC, 2NO/2NC, 4NO/4NC
IP/NEMA Ratings	IP65 / NEMA 4, 12, 13		IP67 / NEMA 4, 6	IP67 / NEMA 4, 6	IP67

Safety Limit Switches



Product Family	SN31	SN32	SM31/SM32	SNB/SNBP	SNH
Product Picture	 Metal	 Metal			
Dimensions (mm)	30 x 16 x 50	40 x 16 x 50	SM31: 30 x 16 x 50 SM32: 37.3 x 16 x 50	SNB: 77 x 35.6 x 81 SNBP: 73 x 37 x 81	85 x 53 x 85
Contact Configuration	1NO/1NC (snap or slow action)	1NO/1NC (snap or slow action)	1NO/1NC, 2NO, 2NC, 2NO/1NC, 2NC/1NO, 2NO/2NC,	2NO/2NC, 4NC	1NO/1NC, 2NO, 2NC
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6	IP66 / NEMA 4	IP54 / NEMA 5

Non-Contact Safety Switches

Product Family	MP/MH Magnetic Switch	MPX Magnetic Switch	MF RFID	FP2 Ferrous Proximity	MP50 Magnetic Switch
Product Picture					 Bistable
Dimensions (mm)	Various	60 x 30 x 18	91 x 25 x 20	43 x 25 x 13	104 x 52 x 47
Contact Configuration	400mA 100V 1NC, 2NC, 1NO/1NC, 1NO/2NC, 3NC	2A 120V 1NO, 1NC, 1NO/1NC	200mA 10-30V 2 Safety Output	400mA 100V	3A 250V 1NO/1NC, 1NO, 1NC, 2NO, 2NC
IP/NEMA Ratings	IP67	IP68/IP69K	IP67	IP68	IP67



ATEX, Class I, Class II Switches for Hazardous Environment

Product Family	EEX-S31/S32 /S35/S36	X3V/X4V	EEX-PB30 (CSP)	EEX-SN31/32	EEX-SN/SND
Product Picture					
Dimensions (mm)	25.5 x 11 x 46.2 25.5 x 17.6 x 46.2	40 x 18 x 10	Various	40 x 42 x 78	
Characteristics	 II 2G EEx d IIC Gb  I M2 EEx d I Mb	 II 2G EEx d IIC Gb  I M2 EEx d I Mb	 II 2G EEx d IIC Gb  I M2 EEx d I Mb	 II 2G EEx d IIC Gb  I M2 EEx d I Mb	
IP/NEMA Ratings	IP67	IP54	IP67	IP67	

Product Family	HCX	SP9-EX	HES	HEX	Foot Switches
Product Picture					
Dimensions (mm)	101.6 x 101.6 x 101.4	93 x 51.3 x 65	69 x 53.5 x 155.5	73 x 52 x 141.5	
Contact Ratings	10A, 15A, 20A, 125/250V	15A, 20A, 25A 125/250/480V	A300/Q300	A300/Q300	
IP/NEMA Ratings	NEMA 2, 4, 4X, 6, 6P, 7, 9, 12, 13	NEMA 1, 7, 9	NEMA 2, 4, 4X, 6, 6P, 7, 9, 12, 13	NEMA 2, 4, 4X, 6, 6P, 7, 9, 12, 13	

Safety Switches

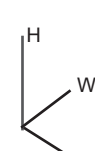


Product Family	Key Interlock Switches					SSD2191/4691 Solenoid Key Interlock	
Product Picture	H W L 						
Dimensions (mm)	Various					36 x 16 x 50	58 x 31.8 x 94 or 88.5 x 35.5 x 95
Enclosure Material	Fiber-reinforced plastic or Metal zinc die cast					Fiber-reinforced plastic	Fiber-reinforced plastic
Characteristics	- EN50041/EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entry: PG11,M16, PG13.5, 1/2NPT, M20					- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 20mm	- Solenoid: 24V, 120 or 240V - Positive opening contact - Power-to-lock or power-to-unlock - Optional indicator light - Cable entry: 1/2NPT, M20
Contact Configuration	1NO/1NC, 2NC/1NO, 2NC, 3NC					1NO/1NC, 2NO, 2NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	2NC/1NO, 3NC, 2NO/2NC, 3NC/1NO, 4NC, 3NC/2NO, 4NC/1NO, 5NC
IP/NEMA Ratings	IP67 / NEMA 4, 4X					IP67 / NEMA 4, 6	IP66 / NEMA 4, 4X
Contact Ratings	A600/Q300					B300/R300	A600/Q300
Actuator	 SND-K1  SND-K2  SND-K3  SM3-K1  SM3-K2 						
Certificates							

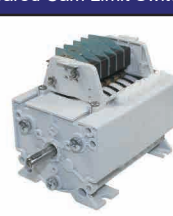
Product Family	SS6391	SS6191/SSD6191	SS6292	Hinge Safety Switch	Mounting Hardware
	Solenoid Key Interlock	Solenoid Key Interlock	Solenoid Key Interlock		
Product Picture				  	    
Dimensions (mm)	110 x 40 x 150	40 x 46 x 194	40 x 42 x 78	Various	
Enclosure Material	Metal zinc die cast	Fiber-reinforced plastic or Metal zinc die cast	Zinc alloy	Fiber-reinforced plastic	
Characteristics	- Solenoid: 24V, 120 or 240V - Positive opening contact - Power-to-lock or power-to-unlock - Optional indicator light - Cable entry: 1/2NPT, M20	- Solenoid: 24V, 120 or 240V - Positive opening contact - Power-to-lock or power-to-unlock - Optional indicator light - Cable entry: 1/2NPT, M20	- Positive opening contact - Up to 6 contacts - Cable entry: 1/2NPT, M20 - 4-direction installation	- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT	
Contact Configuration	3NO/3NC, 4NO/4NC	2NO/2NC, 3NC/1NO, 4NC		1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO	
IP/NEMA Ratings	IP66 / NEMA 4, 4X	IP66 / NEMA 4, 4X	IP67 / NEMA 4, 6	IP67 / NEMA 4, 4X, 6	
Contact Ratings	A600/Q300	A600/Q300	C150/R150	A600/Q300	
Actuator	   				
Certificates					

Cable Pull Switches

Product Family	SN4170/SND4170	SN6170/SND6170	SN2170	SN6271
 Actuating force	 20N	 50N 80N	 20N	 150N
Dimensions (mm)	30 x 31 x 62	40 x 42 x 78	52 x 33 x 64	40 x 40.4 x 69.3
Enclosure Material	Fiber-reinforced plastic or zinc alloy	Fiber-reinforced plastic or zinc alloy	Zinc alloy	Aluminum alloy
Characteristics	- Max span 5 meters (16 ft) - One-way or two-way actuation - Pull-on/pull-off option - Lock and resettable option	- Max span 15 meters (49 ft) - One-way or two-way actuation - Lock and resettable option	- Max span 5 meters (16 ft) - One-way actuation	- Max span 30 meters (98 ft) - One-way actuation
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

Product Family	CP7170/8170	HES/HEX Explosion-proof	HNS	CP-61 Anti-Two-Block Switch
 Product Picture	 250N	 80N	 80N	
Dimensions (mm)	72 x 61 x 120	100 x 61 x 120	42 x 44.6 x 102.5	187.5 x 64 x 36
Enclosure Material	Aluminum alloy	Aluminum alloy	Zinc alloy	Aluminum alloy
Characteristics	- Max span 80 meters (262 ft) for CP7170 - Max span 160 meters (524 ft) for CP8170 - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts	- Max span 160 meters (524 ft) - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts	- Max span 30 meters (98ft) - Heavy duty body	- Prevents unintentional contact between hook block and boom point - Electrical switch is completely sealed twice (both inside and outside housing) - Protective bracket
Contact Configuration	1NO/1NC, 2NO, 2NC, 3NO, 3NC 2NO/1NC, 2NC/1NO	3NC/1NO, 2NO/2NC	3NC/1NO, 2NO/2NC	1NO/1NO, 2NO/2NC

Specialty Limit Switches

Product Family	SND4-NH Hall Effect Limit Switches	HNS-RF Wireless Limit Switches	SQA Geared Cam Limit Switches	SQC Geared Cam Limit Switches
Product Picture				
Dimensions (mm)	30.5 x 32 x 62	Various	136 x 98 x 81	136 x 98 x 81
Characteristics	- Conforms to EN50047 - Hall-effect sensor with output of 0-5VDC - Input voltage 10-30VDC - Cable entries: PG 13.5, M20, 1/2NPT - Various head styles	- Reliable, flexible and secure wireless transmission - Variety of antenna options - Extremely long battery life - Various head styles	- High precision gears for compact hoisting - Cam adjustments at fixed position - Various Housing for harsh environment	- High precision gears for compact hoisting - Cam adjustments at fixed position - Various Housing for harsh environment
Contact Ratings	Analog Output:0-5VDC	200mA/24V	11A 1/2HP 125/250VAC	11A 1/2HP 125/250VAC
IP/NEMA Ratings	IP67	IP67	IP67	IP67



Switches for Vehicles and Transportation



Product Family	ISP/INP/INM Ignition Switches	DXP PTO Switches	PS Plunger Switches	DSW Seat Switches	DHM Hour Meter
Product Picture H W L Various					
Enclosure Material	Zinc or Plastic	Plastic	Plastic	Plastic	Plastic
Characteristics	- Easy snap-in or nut mount - Available in 2, 3 or 4 pos - Various circuit configurations	- Easy snap-in installation - Standard .032 x .250 blade terminals	- Easy snap-in installation - Standard .032 x .250 blade terminals	- Easy snap-in installation - Standard .032 x .250 blade terminals	- Rugged design for true time stamp - 0-9999 hours Automatically recycle to zero
Contact Configuration	Various	2NO/2NC, 3NO/3NC,	1NO, 1NC, 1NO/1NC, 2NC	1NO, 1NC, 1NO/1NC, 2NC	
IP/NEMA Ratings	IP55(front)/IP53(back)	IP53 (or IP67)	IP53 (or IP65)	IP53	IP65/IP68
Contact Ratings	20A/14VDC, 5A/60VDC	5A, 10A/14VDC	3A/14VDC	3A/14VDC	6-50VDC

Product Family	IHP/IHM Ignition Switches	PL30 Ignition Switches	TL7 Toggle Switches	TN8/TL8 Toggle Switches	TW1 Toggle Switches
Product Picture H W L					
Enclosure Material	Zinc alloy or fiber reinforced plastic	Fiber-reinforced plastic	Phenolic	Zinc and fiber-reinforced plastic	Fiber-reinforced plastic
Characteristics	- 22mm nut mount - Available in 2, 3 or 4 pos. - Various circuit configurations - Screw terminal or Dephi/Deutsch connectors	- Modern ignition design - Momentary push to start - 30mm mounting hole - Integrated connector	- 1,2,3 pole circuitry - Available in industrial and mil grade - Maintained or momentary	- 1,2 and 4 pole circuitry - Available in industrial and mil grade - 2 and 3 positions - Maintained or momentary	- Miniature design sealed toggle switch - 1,2 pole circuitry - Maintained or momentary
IP/NEMA Ratings	IP55(front)/IP53(back)	IPX9K(front)/IP67(back)	IP65	IP67 / IP69K	IP67 / IP69K
Contact Ratings	20A/14VDC, 8A/24VDC	4mA/150mA DC load	20A/125VAC, 10A/250VAC, 1.5HP 125/250VAC	20A/28VDC, 15A/277VAC, 6A/230VAC	5.0A 0.5VDC to 28VDC, 5.0A 0.5VAC to 115VAC

Product Family	TR3 Rocker Switches	TR4 Rocker Switches	TR5A Rocker Switches	TR5B/5C/5D Rocker Switches	TR6 Rocker Switches
Product Picture H W L					
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic
Characteristics	- Tough and reliable rocker switch - 1,2 pole circuitry - Maintained or momentary	- Tough and reliable rocker switch - 1,2 pole circuitry - Maintained or momentary	- Tough and reliable rocker switch - 1,2 pole circuitry - Maintained or momentary	- Tough and reliable rocker switch - 1,2 pole circuitry - Maintained or momentary	- 1,2 pole circuit - Molded-in terminal inserts - Custom colors and legends - IP68S and IP69K
Contact Ratings	15A 125VAC / 10A 250VAC(GP) 3/4HP 125/ 250VAC 20A 4-14VDC / 15A 15-28VDC	15A 125VAC / 10A 250VAC(GP) 3/4HP 125/ 250VAC 20A 4-14VDC / 15A 15-28VDC	15A 125VAC / 10A 250VAC(GP) 3/4HP 125/ 250VAC 20A 4-14VDC / 15A 15-28VDC	15A 125VAC / 10A 250VAC(GP) 3/4HP 125/ 250VAC 20A 4-14VDC / 15A 15-28VDC	10A 125/250Vac(GP), 1/2HP 125/250Vac, 8A 48Vdc

Product Family	TR7/TR7D Rocker Switches	MR19 Rocker Switches	TRD5 Dimmer Switches	TRS/TRH Thumb Switches	TR4-WW Wiper Control
Product Picture H W L					
Enclosure Material	Phenolic	Fiber-reinforced plastic	Fiber-reinforced plastic	Aluminum Alloy	Fiber-reinforced plastic
Characteristics	- Economical - 1,2,4 Pole circuit - Maintained or momentary	- Easy to install - Excellent front panel sealing - Backlit logos	- Reverse polarity protection - Superior EMI/EMC resistance - Custom colors and legends	- Compatible with trim control - 2,4 or 8-way toggle action - Tactile or silent - Sealed to IP68S	- ON/OFF/Wash - Speed Control
Contact Ratings	15A/125VAC, 10A/250VAC 33A/125VAC 25A/250VAC	1A 24VDC	10A/12VDC or 5A/24VDC	2A/28VDC, 10mA/5VDC	12/24VDC



Switches for Vehicles and Transportation



Product Family	SD300-RNM/SD300-ZNM Battery Disconnect	SD300-RNP Battery Disconnect	SD300-BNS/SD300-BNR Battery Disconnect	SD320 Battery Disconnect	SD500 Battery Disconnect
Product Picture H W L Various				 2NC	 2NC
Enclosure Material	Zinc/Phenolic	Plastic/Phenolic	Plastic/Phenolic	Plastic/Phenolic	Plastic/Phenolic
Contact Ratings	300A/400A	300A/400A	300A/400A	Large Studs:175A Small Studs:20A	500A

Product Family	BD150/250/BDS150 Battery Disconnect	VS/VT Shifter/Turn Signal	IHP-L Glove Box Lock	DD DC/DC Converter	TIMER
Product Picture H W L	 Solenoid				
Features	Fiber-reinforced plastic	Plastic housing with Zinc cast column	Fiber-reinforced plastic	10A, 20A,40A 100A	Two timing outputs
Contact Ratings	Up to 150A DC	2A@12.8VDC (Solenoid load) arc suppression 3-32V	Share key with ignition switch	12 to 24V, 12 to 48V, 24 to 12V, 96 to 12V, 120 to 13.2V	2A/12V

Product Family	TPS-15(R) Throttle Pedals	TPS-26 Throttle Pedals	TPS-27 Throttle Pedals	TPS-54 Throttle Pedals	TPS-62 Throttle Pedals
Product Picture H W L	 Forward/Reverse				
Enclosure Material	Fiber-reinforced plastic	Aluminum Alloy and Carbon Steel	Cast Aluminum	Plastic pedal/steel base	Plastic pedal/steel base
Output Options	- Variable voltage output with or with PWM (single or dual outputs) - CAN J-1939 or CAN Open				

Product Family	TPS-65 Throttle Pedals	AP_X Tilt Sensor	BP_X Tilt Sensor	CP_X Tilt Sensor	DP_X Tilt Sensor
Product Picture H W L					
Enclosure Material	Plastic pedal/steel base	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic
Characteristics	- Hall and CAN output function	- single-axis or dual-axis output - Analog or CAN J1939 / CAN Open Output	- Relay Output - Delayed Output	- single-axis or dual-axis output - Optional Output Angle Range	- Adjustable relative horizontal position - Power-Off Data Retention
Features	TPS-65(STE): 0.5-4.5Vdc TPS-65(PWM): 9-15Vdc	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc

Product Family	SRP/SRY/SRJ Rotary Sensor	HSS Speed Sensor	PH-12 Linear Pushbutton	HNP2 Hall Effect Paddle	ATV Vehicle Switches
Product Picture H W L					
Enclosure Material	Fiber-reinforced Plastic	Fiber-reinforced Plastic	Fiber-reinforced Plastic	Fiber-reinforced Plastic	Plastic (94-V0)
Characteristics	- Solid-state hall-effect sensor - Integrated reverse polarity short circuit protection - Voltage/PWM/Current output	- Quadrature speed and direction sensor with 4-wire - Differential Hall - Near zero speed	- Hall effect for reliable contactless switching - 10 million cycles - IP67	- Hall effect linear control - Positive tactile feedback - Analog or PWM outputs - IP67	- Compact size - Built-in cable gland - Fit 8.5 -10.5mm cables - Custom Control product
Operating Voltage	5 VDC/ 10-30VDC @ 20 mA	9 V to 16 V @ 20 mA	4.5-5.5 VDC @ 9 mA	4.5-5.5 VDC @ 15 mA	12VDC



Switches for Vehicles and Transportation



Product Family	PT-12/TR-160 Wireless Controls	HGT Pistol Grip Remote	BAL Backup Alarm	500 Stop/Tail/Turn Light	TL70/TL90 Warning Light
Product Picture					
Characteristics	- Reliable industrial grade wireless system - One-way or Two-way Communication - Changeable legends - CANBUS ready		- Various voltage and sound pressure level - Smart alarm available - Universal mounting bracket - Sealed to IP65 - 12-80VDC	- Meet ANSI/SAE S279.17 & FMVSS - Universal 12/24V input - IP67	- Fiber-reinforced Plastic - Pulse8 (8 flash per cycle) flash pattern - Perfect replacement solution for strobe beacon - 12-80VDC/85-130VAC

Product Family	JST-2 Joystick	JST-4 Joystick	JST-5 Joystick	JST-6/JST-7 Joystick	JST-8 Joystick
Product Picture					
Characteristics	- Single axis hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - SAE J1939 CAN output - Variable voltage output	- Dual axis hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - With safety release - SAE J1939 CAN output - Variable voltage output	- Dual axis hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - SAE J1939 CAN output - Variable voltage output	- Single/dual axis hall effect - Various button/rocker option - Miniature base mounting - SAE J1939 CAN output	- Single/dual axis hall effect - Various button/rocker option - Miniature base mounting - SAE J1939 CAN output
Operating Voltage	5VDC or 9-32V	5VDC or 9-32V	5VDC or 9-32V	9-32V	9-32V

Product Family	JST-3B Joystick	JST-3UB Joystick	JST-3U Joystick	JSM-4 Joystick	LSS-4-CAN CAN Load Cell Control
Product Picture					
Characteristics	- Single/dual hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - With trigger function - SAE J1939 CAN output - Variable voltage output	- Single/dual hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - SAE J1939 CAN output - Variable voltage output	- Single/dual hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - With safety release - SAE J1939 CAN output - Variable voltage output	- Single/dual hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - SAE J1939 CAN output - Variable voltage output	- 4 load cells input - SAE J1939 CAN output
Operating Voltage	5VDC or 9-32V	5VDC or 9-32V	5VDC or 9-32V	5VDC or 9-32V	9-32V

Product Family	ECB CAN-BUS Keypads	SCB/SCJ CAN-BUS Keypads	SCIO CAN-BUS I/O	SCM CAN-BUS Control Module	SCD CAN-BUS Display Module
Product Picture					
Enclosure Material	Silicone Rubber	Silicone Rubber	Fiber-reinforced Plastic	Cast Aluminum	Fiber-reinforced Plastic
Characteristics	- Rubber overmold for water and shock resistance - SAE J1939 CAN output - Up to IP69K	- Rubber overmold for water and shock resistance - SAE J1939 CAN output - Up to IP69K	- Convert traditional signals (analog/digital) to CAN bus output - Up to IP69K	- CAN-BUS solid-state controller - Up to 42 high-side outputs - Reverse polarity protection - Up to IP69K	- For various vehicle functions - ISO 15765 OBD access - Custom I/O - Up to IP65
Operating Voltage	8-32VDC	8-32VDC	8-32VDC	18-32VDC	9-32VDC

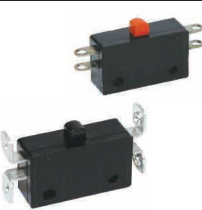
Elevator Door Safety Interlock



Product Family	SSD4 Latching Limit Switch	SM31N-91/ SND4121/ SND2191	SXP Door Interlock	EDC-5/ EDC-6 Door Contact	SS6291 Door Solenoid Interlock
Product Picture					
Dimensions (mm)	40 x 35 x 106(84 or 95.7)	SM31N: 30 x 16 x 77 SND4: 30 x 31 x 62	30 x 12.4 x 30 (33.6)	EDC-5: 52 x 16(19) x 31.5 EDC-6: 50 x 16(19) x 24.5	247.7 x 48 x 42
Enclosure Material	Fiber-reinforced plastic	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)	Zinc die cast
Characteristics	- Conforms to EN50047 - Positive opening contact - Remote reset - Galvanically separated contacts - 3-Conduit entries: M16	- Conforms to EN50047 - Positive opening contact	- Long service life - Pull to test function - Double break - Positive opening contact for SXP1	- Self-cleaning double break contact for long service life - Positive opening contact - B44-16 safety standard	- Safety solenoid Interlock for commercial/residential - 675lb key holding force - ASME A17.1/CSA B44 - ASME A17.4/CSA B44.1 - UL/QAI Certified
Contact Configuration	1NO/1NC, 2NO, 2NC, 3NO 3NC, 2NC/1NO	1NO/1NO, NC, 3NC, 2NC/1NO	SPDT or DPDT	1NC, 2NC	2NC
IP/NEMA Ratings	IP66	IP67 (NEMA 4,6)	IP40	IP20/IP54(Only for 61-X4)	IP65
Contact Ratings	A600/Q300	A600/Q300	A300 (10A, 300V)	2A/230VAC; 2A/200VDC	0.5A/24VDC

Product Family	EDL-1/EDLP-1 Door Contact	EDL-2 Door Interlock	EDL-3 Door Interlock	EDL-4 Door Interlock	EDL-5 Door Interlock
Product Picture	 Type: G	 Type: SN	 Type: N	 Type: MO	 Type: MOCB
Dimensions (mm)	129 x 36 x 87	133.9 x 70 x 277.5	194.5 x 71.5 x 278.1	142.5 x 91 x 38	243 x 112.5 x 37
Enclosure Material	Aluminum die cast	Aluminum die cast	Aluminum die cast	Aluminum die cast	Aluminum die cast
Characteristics	- Robust double break contact for elevators - Positive opening contact - ASME A17, 1/A17.5/A18.1 CSA B44 B44.1 B355	- Robust double break contact for swing/slide door - Positive opening contact - ASME A17, 1/A17.5/A18.1 CSA B44 B44.1 B355	- Robust double break contact for swing/slide door - Positive opening contact - ASME A17, 1/A17.5/A18.1 CSA B44 B44.1 B355 - With AUX contact	- Robust double break contact for swing/slide door - Positive opening contact - ASME A17, 1/A17.5/A18.1 CSA B44 B44.1 B355	- Robust double break contact for swing/slide door - Left & right mechanically - ASME A17, 1/A17.5/A18.1 CSA B44 B44.1 B355
Contact Configuration	1NC	1NC	1NC + 1NC	1NC	1NC + 1NC
IP/NEMA Ratings	IP20	IP20	IP20	IP20	IP20
Contact Ratings	2A/230V AC/DC	2A/230V AC/DC	2A/230V AC/DC	2A/230V AC/DC	2A/230V AC/DC

Micro Switches

Product Family	ZP3/ZP3W Miniature Snap Switch	ZA/ZB4 Miniature Snap Switch	ZP4 Miniature Snap Switch	ZM4 Micro Switches	S-47 Micro Switches
Product Picture					 Positive Open
Dimensions (mm)	20 x 15.3 x 6.4	31.6 x 22.4 x 12.5	20 x 10 x 6.4	19.8 x 11.2 x 6.6	50 x 48 x 12
Current Rating	0.1A, 5A, 10A, 125/250VAC	0.1A, 1A, 10A, 125/250VAC, 1/2 HP, 125VAC, 3/4 HP 250VAC	0.1A, 5A, 10A, 125/250VAC	0.1A, 5A, 10A, 125/250VAC	1.5A/230VAC 1.0A/110VDC lth: 10A Ui: 400V



Micro Switches



Product Family	X3/X4 Sub-Miniature	X3M Sub-Miniature	ZM3 Sub-Miniature	ZM3M Sub-Miniature	S-72
Product Picture					
Dimensions (mm)	X3:12.7 x 8.9 x 5.0 X4:13 X 9 X 5.1	15.7 x 15 x 8	19.8 x 12.4 x 6.4	22.1 X 15.2 X 8.8	23.2 x 10.2 x 22.6
Current Rating	X3(5A/7A 250VAC, 1A 125VAC)	X3(5A/7A 250VAC , 1A 125VAC)	0.1,1,5, 11A, 1/4HP 125/250VAC 5A 30VDC	0.1,1,5, 11A, 1/4HP 125/250VAC 5A 30VDC	10A 125/250VAC

Product Family	VA-16G/VS-16G VB-16G/VM-16G	VS-W	VS16-AC/VM16-AC ZM3-AC	VP/VC	SLD-7
Product Picture					
Dimensions (mm)	27.8 x 10.3 x 13.1	33 x 10.3 x 15.9	Various	27.8 x 10.3 x 13.1	35 x 11 x 17.2(28.8)
Current Rating	16A 1/2HP 125/250VAC	0.1A, 3A, 5A, 11A, 16A 1/2HP 125/250VAC	16A 1/2HP 125/250VAC	0.1A, 3A, 5A, 11A 1/2HP 125/250VAC	10A or 15A 1/2HP 125/250VAC

Product Family	Z-15/20/25G	ZY-10G/ZD-10G	ZS-15G	SW31/32	SN7/SN7-W
Product Picture					
Dimensions (mm)	49.2 x 17.5 x 24	49.2 x 17.4 x 27.9(22.7)	49.2 x 17.4 x 24.3	63.6 x 21.1 x 26.2(30)	54 x 21.4 x 43
Current Rating	15A/20A/25A 125/250/480VAC	10A 1/2HP 125/250VAC	15A 125/250/480VAC	10A 1/2HP 125/250VAC	10A 250VAC

Product Family	ZX10	ZH-10G	ZT1H	S-13/14/19/20	LS Rubber Overmold
Product Picture					
Dimensions (mm)	49.2 x 17.5 x 24	49 x 16.5 x 21	49.2 x 32 x 17.4	46.3 x 15.8 x 16.3(28.6)	50 x 20.6 x 10.5
Current Rating	10A/125VDC 3A/250VDC	1A 125VAC 5A 28VDC	1A 125/250VAC	15A/25A 250VAC	5A 28VDC 125/250VAC

Product Family	TS-01 Thin Switches	SK-19 Key Switches	PA-08/10 Plunger Switches	PK-12 Plunger Switches	PSM Plunger Switches
Product Picture					
Dimensions (mm)	54.6 x 38.1 x 4.8	19mm	8mm/10mm	12mm	Various
Current Rating	5A/7A 250VAC	8A/125VAC 4A/250VAC	250mA/24VDC, 250mA/125VAC	6A/125VAC, 3A/250VAC	20A 12V



Indicator Lights and 12/16/18/22/30mm Operators



Product Family	IL-1	IL-2	IL-3	IL-4	IL-5	IL-6
Product Picture		 M8x0.5	 M12x1			
	Indicator Lights	Indicator Lights	Indicator Lights	Indicator Lights	Indicator Lights	Indicator Lights
Mounting Hole Diameter	5/16" (8mm)	8.2mm	12.2mm	1/2" (12.7mm)	3/4" (18mm)	22mm
Available Colors	Red, blue, green, amber					
Lamp Voltage	6, 12, 24, 48, 120, 240V					
IP/NEMA Ratings	IP40	IP40 (IP65 with seal)	IP40 (IP65 with seal)	IP40 (IP67 with seal)	IP65	IP40

Product Family	PB16	PBL16	PT16	MB22	PW22
Product Picture		 Low back panel depth		 Key Selector Switches Pushbuttons E-Stop/Turn Release Selector Switches	
Mounting Hole Diameter	16mm	16mm	16mm	22mm	22mm
Characteristics	1NO/1NC, 2NO or 2NC	1NO, 1NC, 1NO/1NC or 2NC	1NC, 2NC, 1NO/1NC, 2NO/2NC	1NO/1NC or 2NO/2NC	- Momentary or Maintained - Custom legend
Lamp Voltage	24, 120, 240V	12, 24, 36, 48, 120, 240V	5, 12, 24, 250V	12, 24, 36, 48, 120, 240V	10-30VDC
IP/NEMA Ratings	IP40	IP65/IP69K	IP40/IP65	IP40	IP65

Product Family	PP12	PP12-5	PM16	CPB Capacitive Touch Buttons	EM15 Push-Pull E-Stop	PP22/PP30 Push-Pull E-Stop
Product Picture						
Mounting Hole Diameter	12mm	12mm	16mm	22/30/45/60mm	15mm	22mm/30mm
Characteristics	- Available colors: red, blue, green, amber - 1NO/1NC	- Low profile design	- Available colors: red, blue, green, amber - 1NO/1NC	- Robust plastic - Two-color indicator - Momentary or Maintained - Output: PNP-NO or NPN	- Compact Design - Anodized Button (different color) - 6A/35VDC 1NC, 1NO/1NC, 2NC	- Robust design for harsh environment - Dual O-ring seal - Self cleaning
Lamp Voltage	5A/30VDC, 5A/125VAC	5A/30VDC, 5A/125VAC	10A/30VDC, 10A/125VAC	10-30VDC		12VDC, 24VDC, 48VDC, 120VAC, 240VAC
IP/NEMA Ratings	IP67/IP68	IP67/IP68	IP67/IP68	IP69K	IP67	IP67

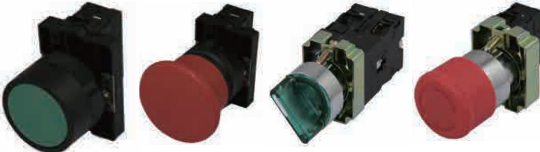
Emergency Stop Pushbuttons

Product Family	PBL16-ET2	PBL16-ET3/ET4	PBL19-ES	PBL22-ET	PB22-ES-RG	EM22/28
Product Picture		 ET3 ET4	 Not LED option Push-Pull			 Not LED option Push-Pull
Mounting Hole Diameter	16mm	16mm	19mm	22mm	22mm	22mm/28mm
Characteristics	- With or without LED indicator - Solder or quick connect terminals - 6A/35VDC - 1NC, 1NO/1NC, 2NC	- With or without LED indicator - Push-pull and twist Release dual functions - 6A/35VDC - 1NC, 1NO/1NC, 2NC	- Vibration-Resistant and Anti-Shake - 6A/35VDC - 1NC, 1NO/1NC, 2NC	- With or without LED indicator - Solder or quick connect terminals - 6A/35VDC - 1NC, 1NO/1NC, 2NC	- Indicates red or green when in operation - LED indicator - A600/Q300 - 1NC, 1NO/1NC, 2NC, 1NO/2NC	- All Metal Design - 3A 24VDC - 2NC, 1NO/2NC, 2NO/2NC
Lamp Voltage	Various	Various		Various	Various	
IP/NEMA Ratings	IP67	IP67	IP67	IP67	IP67	IP67/IP69K



22mm Operators (NEMA 4, 4X, 6, 6P, A600/Q600)



Product Family	PB/PBM22	PB/PBM22-N
Product Picture		
Mounting Hole Diameter	22mm	22mm
Characteristics	- Plastic or zinc die cast body - Extend, Flush or Guarded - Maintained or momentary	- Plastic or zinc die cast body - Extend, Flush or Guarded - Maintained or momentary
Lamp Voltage	6,12,24,120,240V	6,12,24,120,240V
IP/NEMA Ratings	IP65	IP67

Product Family	PT22/PTM22	PB22-L	PX22
Product Picture			
Mounting Hole Diameter	22mm	22mm	22mm
Characteristics	- Plastic or zinc die cast body - Extend, Flush or Guarded - Maintained or momentary	- Available colors:red, blue, green, yellow, white - Standard and illuminated - E-stop/turn release	- Extend, Flush or Guarded - Maintained or momentary - Quick-wiring method
Lamp Voltage	6,12,24,120,240V	6,12,24,120,240V	6,12,24,120,240V
IP/NEMA Ratings	IP65	IP65	IP67

30mm Operators (IP65, NEMA 4, 4X, A600/Q600)



Product Family	PBM30
Product Picture	
Characteristics	- Plastic or zinc die cast body - Available button colors: red, blue, green, amber, black, white, yellow - Extend, Flush or Guarded - Maintained or momentary - Styles: key switch, joystick, emergency stop, break glass - Potentiometer available in: 1K, 2.5K, 5K, 10K, 25K - Selector style available in 2, 3, 4 positions - 6,12,24,48,120,240,380,600V

SS12/16/19/22/25/30 Sealed Anti-Vandal Switch

Product Family	12mm	16mm	19mm	22mm	30mm
Product Picture					
Characteristics	- Stainless steel or nickel plated brass housing - 6, 12, 24, 120, 240V LED options - Robust long life design, IP65 rated - Available in momentary or maintained styles				



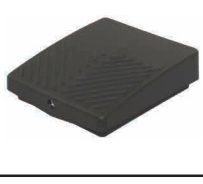
Control Stations/Pendant Stations/Signaling Device/Others



Product Family	CSP-22	CSP-30	CSZ-22/30	CSS
Product Picture				
	22mm Control Stations	30mm Control Stations	Control Stations	Pendant Stations
Dimensions (mm)	Various	Various	Various	Various
Characteristics	- Robust fiber reinforced plastic - Available 1 to 5 holes	- Robust fiber reinforced plastic - Available 1 to 3 holes	- Zinc or aluminum die cast - Available 1 to 6 holes	- Stainless steel - Available 1 to 20 holes - Accept custom order
Contact Ratings	A600/Q600	A600/Q600	A600/Q600	A600/Q600
IP/NEMA Ratings	IP65 / NEMA 4 / 4X	IP65 / NEMA 4 / 4X	IP65 / NEMA 4	IP65 / NEMA 4 / 4X
Product Family	CSD	CSN	CSB	CSH/CSE
Product Picture				
	Control Stations	Control Stations	Pendant Control Stations	Pendant Control Stations
Dimensions (mm)	52 x 55 x 97(131)	70 x 83 x 110	57 x 76 x 117	53x74x292 44x70x276
Characteristics	- Steel base/plastic cover - 1 or 3 buttons - Interlock, maintained opts	- Zinc die cast body - Interlock and maintained options are available	- 94V-0 plastic - Colors:red, yellow or black - Interlock & maintained opts	- 94V-0 plastic - 1-speed or 2-speed - Interlock, E-stop options
Contact Ratings	A600/P600	A600/P600	A600/P600	A600/P600
IP/NEMA Ratings	IP20 / NEMA 1	IP65 / NEMA 4	IP65 / NEMA 4 / 4X	IP65 / NEMA 4 / 4X
Product Family	CSG-22	CSC	800 700	TL-30/50/70/90
Product Picture				
	Pendant Control Stations	Pendant Control Stations	Visual Signal/Rotating Beacons	Signaling Towers
Dimensions (mm)	Various	Various	Various	30mm,50mm, 70mm, 90mm
Characteristics	- 94V-0 plastic - Up to 12 switch functions - 1-speed or 2-speed - Interlock options	- 94V-0 plastic - Up to 12 switch functions - 1-speed or 2-speed - Interlock options	- LED, Incandescent or strobe - Flashing or steady - Surface mount or pipe mount	- LED or strobe (universal voltage) - Flashing or steady - Sound module
IP/NEMA Ratings	IP65 / NEMA 4 / 4X	IP65 / NEMA 4 / 4X	IP65	IP65
Certificates	cULus CE	cULus CE	cULus CE	CE
Product Family	CB	ELSL/ESWL-2	118-F	FSC/FSV
Product Picture				
	Alarm Bells	Emergency Lights for Elevator	Retiring CAM	Float Switches
Dimensions	4, 6, 8, 10 inches	5-1/2 x 8-1/2 inch	742x50x84mm	Various
Characteristics	- 6, 12, 24, 120, 240, 380V - Optional weather-proof backbox	- Wall surface mount - Stainless steel - LED	- 1.2A/110VDC,2.4A/60VDC - Horizontal Force: 3 lbs - Horizontal Movement: 30mm (1.2 inch)	- 10,13,15A,120/250V - IP68
Certificates	cULus CE	CS CE	CE	cULus CE

Industrial Foot Switches

Product Family	FS-1	FS-81	FS-9	FSC-31	MED-100
Product Picture					
Dimensions (mm)	70 x 103.25 x 21.5	75 x 100 x 33 180 x 132 x 31 (twin)	70 x 80 x 36	89 x 142.5 x 54	Dia. 100 x
Characteristics	- With nonskid pads - front or rear hinged style - Maintain style available - Stainless steel available	- Plastics or zinc cast body - Custom color available - SPDT, DPDT or 2-stage - Push-on/push-off available	- Plastics or zinc 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	- 360° actuation - SPDT or 2xSPDT - Plastic body
Contact ratings	10A, 15A 250VAC	10A, 15A 250VAC	10A, 15A, 20A, 25A 250V	10A, 15A, 20A, 25A 250V	5A, 10A, 15A, 20A 250V
IP/NEMA Ratings	IP20 or IP68	IP20 or IP68	IP20 or IP68	IP65 or IP68	IP20/IP68

Product Family	FS-81R	MED-145	FS-81-C2	FSM-91-C2	FSC-31-C3
Product Picture			 Pneumatic Air Valve	 Pneumatic Air Valve	 Pneumatic Air Valve
Dimensions (mm)	25 x 29 x 20	Dia. 145 x	75 x 100 x 33	70 x 80 x 36	89 x 142.5 x 54
Characteristics	- Plastics or zinc cast body - SPDT x 2	- 360° actuation - SPDT or 2xSPDT - Steel body	- Plastics or zinc cast body - 1/8-27NPT ports - 2-way or 3-way - Up to 150 PSI	- Plastics or zinc cast body - 1/8-27NPT ports - 2-way or 3-way - Up to 150 PSI	- Aluminium alloy body - 1/8-27NPT ports - 2-way, 3-way or 4-way - Up to 150 PSI
Contact Ratings	10A, 15A, 120/250VAC	5A, 10A, 15A, 20A 250V			
IP/NEMA Ratings	IP20/IP68	IP20/IP68			

Product Family	FS-5	FS-61	FS-62	FS-41 / FSM-41
Product Picture				
Dimensions (mm)	Heavy Duty 100 x 200 x 85 157 x 228 x 140 (guarded)	Heavy Duty 70.5 x 220 x 62 164 x 240 x 157 (guarded)	Heavy Duty 192 x 220 x 62 275 x 254 x 151 (guarded)	Heavy Duty 110 x 170 x 50 160 x 180 x 137 (guarded)
Characteristics	- Iron cast based with aluminum cast guard - SPDT, DPDT or 2-stage - maintained, anti-trip options	- Die cast aluminum body - SPDT, DPDT or 2-stage (with pressure point) - Options: maintained, anti-trip, variable speed, emergency stop, potentiometer		- Die cast aluminum or fiber-reinforced plastics - SPDT, DPDT - Anti-trip, steel guard
Contact Ratings	15A, 20A, 25A, 250VAC	15A, 20A, 25A or A600/Q300		10A, 15A, 20A, 25A, 250VAC
IP/NEMA Ratings	IP65 / NEMA 4	IP65 / NEMA 4 (or IP67/NEMA 6)		IP68 / NEMA 6, 6P

Product Family	AS-1	FAS-1	FAS-91	FWC-1
Product Picture				
Dimensions (mm)	25 x 29 x 20	117 x 72 x 32	70 x 80 x 36	292x118x103
Characteristics	- SPDT, DPDT - Momentary or Maintained	- SPDT, DPDT - Momentary or Maintained	- SPDT, DPDT - Momentary or Maintained	- 1K, 5K, 10K Potentiometer - 1 or 2 15A/250V switch
Contact Ratings	15A, 20A, 120/250VAC	15A, 20A, 120/250VAC	15A, 20A, 120/250VAC	
IP/NEMA Ratings	IP20	IP20	IP20	IP68



Medical Foot Switches

Featured Products (Available in Standard Switch Outputs or USB Outputs)

One Switch Function:



FS-81-SP

FX-81*

FS-21-10W

FP-41-LS

FS-1-10W-SS

FS-91-10W

FSBM-1-10

MED100

MED110/170

One Switch Functions:



FS-81-SP-CS

FS-61-SP*

FS-61G-SP*

FS-81-SP-W*

Two Switch Functions:



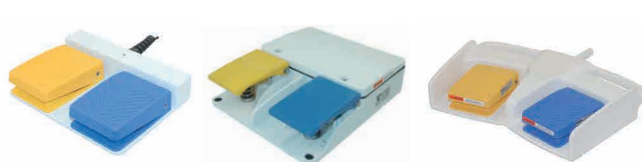
FS-81R

FSR-21

FS-71

FS82-SP

Two Switch Functions:



FS81-SP(TWIN)

FS62-SP*

FS-82-SP-W-S*

Three Switch Functions:



FS-81-SP(3-PEDAL)

FS-23-10W*

FS-83-SP-W(P)*

Three Switch Functions:



FX-83*

FSB-3*

FSB-3S*

FS-81-SP-W-B2

FS-82-SP-M-B100M

FS-82-SP-W-S-B1*

FP-42-5-W-B1-H*

Four Switch Functions:



FS-82-SP-W-S-B2

FS-84-SP*

FS-81R-W-B2-H*

FS-81-W1-B3-H*

Five Switch Functions:



FS-72-10W-B*

FS-83-SP-W-B2*

FS-82R-10W-B*

Six Switch Functions:



FSB-66*

FS-81R(3-PEDAL)

FX-84-5T-B2-H*

FS-83R-10W-W*

FS-73-10W*

FSR-23*

Eight Switch Functions:



FSB-68*

FS-81R(4-PEDAL)

Customized Solutions:



Surgical Microscope

Dental Control

CT Scanner

Multi-function

*Also available in wireless



Proximity Sensors / Others

Product Family	SLS/SLC/SCC	SO-6	LC	TU TG TH TC	TB
Product Picture					
	Proximity Sensors	Photoelectric Sensors	Load Cells	Terminal Blocks	Terminal Boards
Dimensions (mm)	17x17, 25x25, M8, M12, 30x30, 40x40 M18, M30	12.7 x 12.7	Aluminum, steel, stainless	Various	Various
Characteristics	- Shielded and non-shielded - Reverse polarity protection - Short circuit protection - Red LED indicators - 10-36VDC and 20-250VAC, 10-30VDC	- Internal current limiting resistor - Direct TTL interface - Buffer logic - Fast response time - Dust protective housing	- High accuracy, reliable - Various style for different applications - Offer custom solutions	- Available 1 to 22 position - Current capacity: 15 to 150A	- Various
Contact Ratings	100mA, 150mA, 200mA, 350mA	100mA, 150mA, 5-350mA, 200mA			
IP/NEMA Ratings	IP67	IP67	IP65, IP67		
Certificates					



North & South America

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