



# SUNS<sup>®</sup>

International, LLC

• Innovation • Quality • Service



Safety Limit Switches



Safety Switches



Cable Pull Switches



Micro Switches



Push Buttons  
Indicator Lights



Vehicles Switches



ATEX/EXX Switches



Foot Switches



Signaling Device



Load Cells



Pendant/Control Stations



Proximity Sensors



Photoelectric Sensors












2019

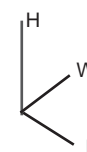








Industrial Control Components

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



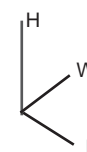








## Safety Limit Switches

Product Family	SMN/SMN4	SND4-NH	SND4/SN4	SND2
Product Picture 				
Body Dimensions (mm) LxWxH	26 x 34 x 21 / 30 x 30 x 45	30.5 x 32 x 62	30.5 x 32 x 62	50.5 x 32.5 x 50.5
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic	Fiber-reinforced plastic or Zinc alloy	Fiber-reinforced plastic
Characteristics	<ul style="list-style-type: none"> <li>- Conforms to EN50047</li> <li>- Miniature size</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: M16, PG11</li> </ul>	<ul style="list-style-type: none"> <li>- Conforms to EN50047</li> <li>- Hall-effect sensor with output of 0-5VDC</li> <li>- Input voltage 10-30VDC</li> <li>- Cable entries: PG 13.5, M20, 1/2NPT</li> </ul>	<ul style="list-style-type: none"> <li>- Conforms to EN50047</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, M20 1/2NPT</li> </ul>	<ul style="list-style-type: none"> <li>- EN50047 compatible</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entries (2 opening): M16, PG13.5, 1/2NPT, M20</li> </ul>
Contact Configuration (available in snap and slow action)	1NO/1NC, 2NO, 2NC	1NO/1NO, 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
IP/NEMA Ratings	IP66 / NEMA 4, 4X, 6	IP67 / NEMA 4, 4X, 6	IP67 / NEMA 4, 6	IP67 / NEMA 4, 4X, 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	SN2	SND6/SN6	Wireless Limit Switch	SN63
Product Picture 				
Body Dimensions (mm) LxWxH	52 x 31 x 64	40.5 x 40 x 74	40 x 42.5 x 78	57 x 36 x 70
Enclosure Material	Zinc alloy	Fiber-reinforced plastic or Zinc alloy	Zinc alloy	Zinc alloy
Characteristics	<ul style="list-style-type: none"> <li>- EN50047 compatible</li> <li>- 3 conduit openings</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, M20 1/2NPT</li> </ul>	<ul style="list-style-type: none"> <li>- Conforms to EN50041</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, M20, 1/2NPT</li> </ul>	<ul style="list-style-type: none"> <li>- Reliable, flexible and secure wireless transmission</li> <li>- Variety of antenna options</li> <li>- Extremely long battery life</li> </ul>	<ul style="list-style-type: none"> <li>- Compatible to EN50041</li> <li>- 3 conduit openings</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, 1/2NPT, M20</li> </ul>
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
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP67 / NEMA 4, 4X, 6	IP68	IP67 / NEMA 4, 6
Contact Ratings	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/HLS/HNS Heavy Duty NEMA Style	CP8104 Heavy Duty Limit Switch	AZ8 Compact Limit Switch	SN62 Limit Switch
Product Picture 				
Body Dimensions (mm) LxWxH	42 x 44.6 x 80 42 x 44.6 x 102.5	100 x 61 x 120	28 x 25 x 64	40 x 40.4 x 69.3
Enclosure Material	Zinc alloy	Aluminum alloy	Zinc cast base/plastic cover	Aluminum alloy
Characteristics	- NEMA style heavy duty - Plug-in style - Cable entry: M20, 1/2NPT, 3/4NPT	- Oversize heavy duty - Various contact configuration - Maximum rating: 25A/600V - Three conduit opening	- Compact size - Premolded flexible cable gland or M12 conduit	- Compatible to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20
Contact Configuration	HMS: 1NO/1NC HNS/ HLS: 1NO/1NC, 2NO/2NC	1NO/1NC, 2NO, 2NC, 3NO/3NC, 4NO/4NC	1NO/1NC	1NO/1NO, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP67 / NEMA 4, 6	IP65 / NEMA 4,12,13	IP67 / NEMA 4, 6
Contact Ratings	A600/Q300	25A/600V, A600/Q300	A300/(10A/250V)	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	plunger, roller, roller lever, rod, spring wire, cat whisker, wobble stick	20+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc
Certificates				

Product Family	SN31 Pre-wired (IP67)	SN32 Pre-wired (IP67)	SM31/SM31N Modular(IP67)	SM32/SM32N 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 or fiber reinforced plastics	Zinc alloy or fiber reinforced plastics
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/SNBP Crane Limit Switches	SNH Belt Alignment Switches	6098 Elevator Limit Switches	SF9 Enclosed Limit Switches
Product Picture 				
Body Dimensions (mm) LxWxH	SNB: 77 x 35.6 x 81 SNBP: 73 x 37 x 81	85 x 53 x 85	80 x 40 x 140	101.6 x 33 x 54.8
Enclosure Material	Zinc or Plastic	Zinc alloy	Galvanized steel	Aluminum Die Cast
Characteristics	<ul style="list-style-type: none"> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: M20, 1/2NPT PG13.5</li> </ul>	<ul style="list-style-type: none"> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: 1/2NPT, M20 PG13.5</li> </ul>	<ul style="list-style-type: none"> <li>- Self-cleaning contacts</li> <li>- Automatic safety tripping mechanism</li> </ul>	<ul style="list-style-type: none"> <li>- Left or right-handed actuator</li> <li>- Sealed or unsealed actuators</li> <li>- Momentary or maintained</li> </ul>
Contact Configuration	2NO/2NC, 4NC	1NO/1NC, 2NO, 2NC	1NC, 1NO, 2NC, 2NO	SPDT/DPDT
IP/NEMA Ratings	IP66 / NEMA 4	IP54 / NEMA 5	IP20	IP65 / NEMA 4
Contact Ratings	A600/Q300	A600/Q300	5A 120/250VAC 2.5A 120/250VDC	10A, 15A, 20A, 25A /250V
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
Certificates				

Product Family	SN1 Precision Limit Switches	SN9 Enclosed Limit Switches	SP9 Enclosed Limit Switches	SN5/SMN5 Limit Switches
Product Picture 				
Body Dimensions (mm) LxWxH	44.5 x 18 x 32.4	86 x 25.5 x 44.6	93 x 51.3 x 65	33 x 33x 60.5
Enclosure Material	Zinc alloy	Aluminum alloy	Aluminum Die Cast	Zinc alloy
Characteristics	<ul style="list-style-type: none"> <li>- Compact size</li> <li>- High sealability</li> <li>- High sensitivity</li> <li>- Built-in cable gland</li> <li>- Cable gland fit 6-9mm dia. cable wires</li> <li>- M12 quick connector type available</li> </ul>	<ul style="list-style-type: none"> <li>- Large wiring enclosure</li> <li>- High repeatability</li> <li>- Large breaking power</li> <li>- Cable entry: 1/2NPT, M20</li> </ul>	<ul style="list-style-type: none"> <li>- Mounts from 4 sides</li> <li>- Robust construction</li> <li>- Large wiring enclosure</li> </ul>	<ul style="list-style-type: none"> <li>- All metal construction</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: M16, PG11 or pre-molded flexible cable gland</li> </ul>
Contact Configuration	SPDT	SPDT/DPDT	SPDT/DPDT	1NO/1NC, 2NO, 2NC (Snap action or Slow action)
IP/NEMA Ratings	IP67 / NEMA 4, 6	IP60 or IP65 (NEMA 4)	IP65 / NEMA 4	IP65 (NEMA 4)
Contact Ratings	5A 250VAC / 5A 30VDC	10A, 15A, 20A, 25A (125, 250, 480V)		A600/Q300
Actuator	10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc	actuator heads including: plunger, roller, roller lever, rod, spring wire etc	actuator heads including: plunger, roller, roller lever, rod, spring wire etc	plunger, roller, roller lever, rod, spring wire, wobble stick
Certificates				



### Micro Switches, Limit Switches and Door Contacts

Product Family	SSD4 Latching Limit Switch	SND4121 Door Interlock	SXP Door Interlock	EDC-5/ EDC-6 Door Contact
Product Picture				
Body Dimensions (mm) LxWxH	40 x 35 x 106	30 x 31 x 62	30 x 12.4 x 30 (33.6)	50 x 16(19) x 24.5
Enclosure Material	Fiber-reinforced plastic	Plastic (94-V0)	Plastic (94-V0)	Plastic (94-V0)
Characteristics	<ul style="list-style-type: none"> <li>- Conforms to EN50047</li> <li>- Positive opening contact</li> <li>- Remote reset</li> <li>- Galvanically separated contacts</li> <li>- 3-Conduit entries: M16</li> </ul>	<ul style="list-style-type: none"> <li>- Conforms to EN50047</li> <li>- Positive opening contact</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Pull to test function</li> <li>- Double break</li> </ul> Positive opening contact : SXP1	<ul style="list-style-type: none"> <li>- Self-cleaning double break contact for long service life</li> <li>- Positive opening contact</li> </ul>
Contact Configuration	1NO/1NC, 2NO, 2NC, 3NO 3NC, 2NC/1NO	1NO/1NO, NC, 3NC, 2NC/1NO	SPDT OR DPDT	1NC,2NC
IP/NEMA Ratings	IP66	IP67 (NEMA 4,6)	IP40	
Contact Ratings	A600/Q300	A600/Q300	A300 (10A, 300V)	2A/230VAC; 2A/200VDC
Certificates				
Product Family	ZP3/ZP3W Miniature Snap Switch	ZA/ZB4 Miniature Snap Switch	ZP4 Miniature Snap Switch	ZM4 Micro Switches
Product Picture				
Body Dimensions (mm) LxWxH	20x15.3x6.4	20x15.3x6.4	20 x 10 x 6.4	19.8 x 11.2 x 6.3
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
Characteristics	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Water-proof(only ZP3W)</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Double-break</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Double-break</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Wide choice of head</li> <li>- Low force option</li> <li>- Positive opening option</li> <li>- Double-break</li> </ul>
Product Family	X3/X4 Sub-Miniature	X3M Miniature Snap Switch	ZM3 Miniature Snap Switch	ZM3M Miniature Snap Switch
Product Picture				
Body Dimensions (mm) LxWxH	12.7x8.9x5.1	12.7x5x8.9	19.8x12.4x6.4	19.8x6.4x9
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
Characteristics	<ul style="list-style-type: none"> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Choice of terminals or wire leads</li> <li>- Available in commercial &amp; military grades</li> </ul>	<ul style="list-style-type: none"> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Choice of terminals or wire leads</li> <li>- Available in commercial &amp; military grades</li> </ul>	<ul style="list-style-type: none"> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Choice of terminals or wire leads</li> <li>- Available in commercial &amp; military grades</li> </ul>	<ul style="list-style-type: none"> <li>- Low current switching</li> <li>- Low contact resistance</li> <li>- Choice of terminals or wire leads</li> <li>- Available in commercial &amp; military grades</li> </ul>
Certificates				



## Micro Switches

Product Family	VA-16G/VS-16G VB-16G/VM-16G	VS-W	VS16-AC/VM16-AC ZM3-AC	VC
Product Picture 				
Body Dimensions (mm) LxWxH	27.8 x 10.3 x 13.1	15.9 x 10.3 x 33	Various	30 x 10.5 x 28.3
Current Rating	16A 1/2HP 125/250VAC	16A 1/2HP 125/250VAC	16A 1/2HP 125/250VAC	16A 1/2HP 125/250VAC
Characteristics	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Wide choice of head</li> <li>- Low force option</li> <li>- Positive opening option</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Varius heads</li> <li>- Wide choice of op. force</li> <li>- IP67</li> </ul>	<ul style="list-style-type: none"> <li>- Various design for different applications</li> <li>- Available for commercial &amp; military grades</li> </ul>	<ul style="list-style-type: none"> <li>- Positive open contact</li> <li>- Quick connector or pre-wired cable</li> <li>- IP67 for prewired version</li> </ul>
Product Family	Z-15/20/25G	ZY-10G/ZD-10G	ZS-15G	SW31/32
Product Picture 				
Body Dimensions (mm) LxWxH	49.2 x 17.5 x 24	49.2 x 17.4 x 26.5	49.2 x 17.4 x 24.3	64 x 21 x 32.5
Current Rating	15A/20A/25A 125/250/480VAC	10A 1/2HP 125/250VAC	15A 125/250/480VAC	10A 1/2HP 125/250VAC
Characteristics	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Wide choice of heads</li> </ul>	<ul style="list-style-type: none"> <li>- High temperature rating</li> <li>- 5 terminals (share common) ZY or 6 terminals ZD</li> </ul>	<ul style="list-style-type: none"> <li>- IP67 water-proof</li> <li>- Positive opening contact</li> <li>- Long service life</li> </ul>	<ul style="list-style-type: none"> <li>- Long-life mechanism</li> <li>- Double break</li> <li>- High temperature rating</li> </ul>
Contact Configuration	SPDT	2NO/2NC	1NO/1NC	1NO/1NC, 2NO/2NC
Product Family	LS	SLD-7	S-72	S-13/14/19/20
Product Picture 				
Body Dimensions (mm) LxWxH	50 x 20.6 x 10.5	35 x 11 x 17.2(28.8)	23.2 x 10.2 x 22.6	46.3 x 15.8 x 16.3 46.3 x 15.8 x 28.6
Current Rating	5A	15A 1/2HP 125/250VAC	10A 125/250VAC	15A/25A 250VAC
Characteristics	<ul style="list-style-type: none"> <li>- Completely sealed</li> <li>- Momentary or maintained</li> <li>- Different actuators</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Prewired</li> <li>- IP67 (NEMA 4, 4X, 6)</li> </ul>	<ul style="list-style-type: none"> <li>- Long service life</li> <li>- Prewired</li> <li>- IP67 (NEMA 4, 4X, 6)</li> </ul>	<ul style="list-style-type: none"> <li>- Long-life mechanism</li> <li>- Low cost</li> <li>- High temperature rating</li> </ul>
Contact Configuration	1NO/1NC or 2NO/2NC	SPDT	SPDT	1NO/1NO, 2NO/2NO
Product Family	TS-01	ZT1H	ZX10	SN7
Product Picture 				
Body Dimensions (mm) LxWxH	54.6 x 38.1 x 4.8	49.2 x 32 x 17.4	49.2 x 17.5 x 24	54 x 21.4 x 43
Current Rating	5A/7A 250VAC	1A 125/250VAC	10A/125VDC;3A/250VDC	10A 250VAC
Characteristics	<ul style="list-style-type: none"> <li>- Verify ejector plate return in plastic injection molds</li> <li>- Slim design to fit anywhere</li> </ul>	<ul style="list-style-type: none"> <li>- High temperature rating of -65°C to 400°C</li> <li>- Platinum alloy contact</li> </ul>	<ul style="list-style-type: none"> <li>- Arc extinguishing design</li> <li>- Higher DC current capacity</li> <li>- Mounting same as Z series</li> </ul>	<ul style="list-style-type: none"> <li>- Compact size</li> <li>- Built-in cable gland</li> <li>- Fit 8.5 -10.5mm cables</li> </ul>
Contact Configuration	1NO/1NC	1NO/1NC	1NO/1NC	SPDT



ATEX, Class I, Class II Switches for Hazardous Environment

Product Family	EEX-S31/S32/S35/S36	X3V/X4V	EEX-SN6/SND6	EEX-SN31/32
Product Picture				
Dimensions (mm)	25.5 x 11 x 46.2 24 x 9 x 25	40 x 18 x 10	52 x 33 x 64	40 x 42 x 78
Characteristics	  94V-0 plastic	 	 	 
Contact Ratings	A300/Q300	250VAC	A300/Q300	A300/Q300
IP/NEMA Ratings	IP67	IP54	IP67	IP67








Product Family	EEX-SND2/SN6	EEX-CP71/81	EEX-PB30 (CSP)	EXX-MP
Product Picture				
Dimensions (mm)	Various	Various	Various	Various
Characteristics	 	 	  - Pushbutton, Selector Emergency Stop - Control Stations	 
Contact Ratings	A300/Q300	5A, 125-250VAC	A300/Q300	400mA/250V
IP/NEMA Ratings	IP67	IP67	IP67	IP67








Product Family	HCX	SP9-EX	HES	HEX
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 142
Characteristics	<ul style="list-style-type: none"> <li>- Class I and Class II</li> <li>- Explosion-proof</li> <li>- Cable entry: M20, 1/2NPT, 3/4NPT</li> <li>- SPDT, DPDT or 2-stage</li> <li>- Various head styles</li> </ul>	<ul style="list-style-type: none"> <li>- Class I and Class II</li> <li>- Explosion-proof</li> <li>- Cable entry: 1/2NPT</li> <li>- 1NO/1NC or 2NO/2NC</li> <li>- Various head styles</li> </ul>	<ul style="list-style-type: none"> <li>- Class I and Class II</li> <li>- Explosion-proof</li> <li>- Cable entry: M20, 1/2NPT, 3/4NPT</li> <li>- 1NO/1NC, 2NO/2NC</li> <li>- Various head styles</li> </ul>	<ul style="list-style-type: none"> <li>- Class I and Class II</li> <li>- Explosion-proof</li> <li>- Cable entry: M20, 1/2NPT, 3/4NPT</li> <li>- 1NO/1NC, 2NO/2NC</li> <li>- Various head styles</li> </ul>
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	SMN4191 Key Interlock Switches	SND2191/SN6191 Key Interlock Switches	SM31N-91 Key Interlock Switches	Hinge Safety Switch
Product Picture				
Body Dimensions (mm) LxWxH	30 x 30 x 45 30 x 31x 62	58 x 31.8 x 94 40 x 42 x 78	30 x 16 x 50	Various
Enclosure Material	Fiber-reinforced plastic	Fiber-reinforced plastic or Metal zinc die cast	Fiber-reinforced plastic	Fiber-reinforced plastic
Characteristics	<ul style="list-style-type: none"> <li>- Conform to EN50047</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG11, M16, PG13.5, 1/2NPT, M20</li> </ul>	<ul style="list-style-type: none"> <li>- EN50041/EN50047 compatible</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, M20 1/2NPT</li> </ul>	<ul style="list-style-type: none"> <li>- Epoxy potted</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Mounting spacing: 20mm</li> </ul>	<ul style="list-style-type: none"> <li>- Conform to EN50047</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, M20 1/2NPT</li> </ul>
Contact Configuration	1NO/1NC, 2NC/1NO, 2NC, 3NC	1NO/1NC, 2NC/1NO, 2NC, 3NC	1NO/1NC, 2NO, 2NC, 2NO/1NC, 2NC/1NO, 2NO/2NC	1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO
IP/NEMA Ratings	IP67 / NEMA 4, 4X	IP67 / NEMA 4, 4X	IP67 / NEMA 4, 6	IP65 / NEMA 4, 4X, 6
Contact Ratings	A600/Q300	A600/Q300	B300/R300	A600/Q300
Actuator	SND-K1      SND-K2      SND-K3			
Certificates				

Product Family	SS6191/SSD6191 Solenoid Key Interlock	SS6291 Elevator Safety Interlock	RDS1 Safety Switch	MP Magnetic Safety
Product Picture				
Body Dimensions (mm) LxWxH	40 x 46 x 194	40 x 42 x 78	91 x 25 x 20	Various
Enclosure Material	Fiber-reinforced plastic or Metal zinc die cast	Zinc alloy	Fiber-reinforced plastic	Fiber-reinforced plastic
Characteristics	<ul style="list-style-type: none"> <li>- Solenoid: 24V, 120 or 240V</li> <li>- Positive opening contact</li> <li>- Power-to-lock or power-to-unlock</li> <li>- Optional indicator light</li> <li>- Cable entry: 1/2NPT, M20</li> </ul>	<ul style="list-style-type: none"> <li>- Conform to EN50041</li> <li>- Positive opening contact</li> <li>- Up to 6 contacts</li> <li>- Cable entry: 1/2NPT, M20</li> <li>- 4-direction installation</li> </ul>	<ul style="list-style-type: none"> <li>- Safety category: Up to SIL 3 (EN62061) PL e and Category 4 (EN113849-1)</li> <li>- Connecting up to 32 sensor in series</li> <li>- with two safety inputs and two safety output</li> </ul>	<ul style="list-style-type: none"> <li>- Non-Contact</li> <li>- Coded magnet</li> <li>- 10 million operations</li> <li>- Switching distance: 6-15mm, 9-18mm</li> <li>- Ratings: 400mA, 100VAC/DC, 24v, 10mA</li> </ul>
Contact Configuration	2NO/2NC, 3NC/1NO, 4NC			
IP/NEMA Ratings	IP66 / NEMA 4, 4X	IP67 / NEMA 4, 6		IP67 / NEMA 4, 4X, 6
Contact Ratings	A600/Q300	SN-K1      SN-K2      SN-K3      SN-K4	SS6-SHK	
Actuator				
Certificates				





## Cable Pull Switches

Product Family	SN4170/SND4170	SN6170/SND6170	SN2170	SN6271
<p>Actuating force</p>	<p>20N</p>	<p>50N 80N</p>	<p>20N</p>	<p>150N</p>
Body Dimensions (mm) LxWxH	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	<ul style="list-style-type: none"> <li>- Max span 5 meters (16 ft)</li> <li>- One-way or two-way actuation</li> <li>- Pull-on/pull-off option</li> <li>- Lock and resettable option</li> <li>- Cable entry: M20, PG13.5 1/2NPT</li> </ul>	<ul style="list-style-type: none"> <li>- Max span 15 meters (49 ft)</li> <li>- One-way or two-way actuation</li> <li>- Lock and resettable option</li> <li>- Cable entry: PG13.5, 1/2NPT, M20</li> </ul>	<ul style="list-style-type: none"> <li>- Max span 5 meters (16 ft)</li> <li>- Conforms to EN50047</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, M20 1/2NPT (x3)</li> </ul>	<ul style="list-style-type: none"> <li>- Max span 30 meters (98 ft)</li> <li>- Compatible to EN50041</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> <li>- Cable entry: PG13.5, 1/2NPT, M20</li> </ul>
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	CP7170/8170	HES/HEX Explosion-proof	HNS	CP-61 Anti-Two-Block Switch
<p>Product Picture</p>	<p>250N</p>	<p>80N</p>	<p>80N</p>	
Body Dimensions (mm) LxWxH	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	<ul style="list-style-type: none"> <li>- Max span 80 meters (262 ft) for CP7170</li> <li>- Max span 160 meters (524 ft) for CP8170</li> <li>- Options: E-stop, indicator</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> </ul>	<ul style="list-style-type: none"> <li>- Max span 160 meters (524 ft)</li> <li>- Options: E-stop, indicator</li> <li>- Positive opening contact</li> <li>- Galvanically separated contacts</li> </ul>	<ul style="list-style-type: none"> <li>- Max span 30 meters (98ft)</li> <li>- Heavy duty body</li> </ul>	<ul style="list-style-type: none"> <li>- Prevents unintentional contact between hook block and boom point</li> <li>- Electrical switch is completely sealed twice (both inside and outside housing)</li> <li>- Protective bracket</li> </ul>
Contact Configuration	1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO	3NC/1NO, 2NO/2NC,	3NC/1NO, 2NO/2NC	1NO/1NO, 2NO/2NC
IP/NEMA Ratings	IP67 / NEMA 4	IP67 / NEMA 4	IP67 / NEMA 4, 6	IP69K
Contact Ratings	A600/Q300	A600/Q300	A600/Q300	A600/Q300
Actuator		Actuator can be on left right or both direction	Actuator can be on the left or right side.	Actuator can be on the left or right side.
Certificates				



## Switches for Vehicles and Transportation



Product Family	ISP/INP/IMN Ignition Switches	DXP PTO Switches	PS Plunger Switches	DSW Seat Switches
Product Picture 				
Body Dimensions (mm) LxWxH	Various	30 x 31 x 62	118 x 36 x 92	30 x 31 x 62
Enclosure Material	Zinc or Plastic	Plastic	Plastic	Plastic
Characteristics	<ul style="list-style-type: none"> <li>- Easy snap-in or nut mount</li> <li>- Available in 2, 3 or 4 pos</li> <li>- Variety of standard circuit configuration available</li> </ul>	<ul style="list-style-type: none"> <li>- Easy snap-in installation</li> <li>- Standard .032 x .250 blade terminals</li> </ul>	<ul style="list-style-type: none"> <li>- Easy snap-in installation</li> <li>- Standard .032 x .250 blade terminals</li> </ul>	<ul style="list-style-type: none"> <li>- Easy snap-in installation</li> <li>- Standard .032 x .250 blade terminals</li> </ul>
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	IP53
Contact Ratings	20A/14VDC, 5A/60VDC	5A, 10A/14VDC	3A/14VDC	3A/14VDC
Product Family	IHP/IHM Ignition Switches	TN8/TL8 Toggle Switches	VS/VT Shifter/Turn Signal	DHM DC Hour Meters
Product Picture 				
Body Dimensions (mm) LxWxH	Dia 40.6 x 40.64	Various	Various	Various
Enclosure Material	Zinc alloy or fiber reinforced plastic	Zinc and fiber-reinforced plastic	Plastic housing with Zinc cast column	Plastic
Characteristics	<ul style="list-style-type: none"> <li>- 22mm nut mount</li> <li>- Available in 2, 3 or 4 pos</li> <li>- Variety of standard circuit configuration available</li> <li>- Screw terminal or Dephi connectors</li> </ul>	<ul style="list-style-type: none"> <li>- 1,2 and 4 pole circuitry</li> <li>- Available in industrial and mil grade</li> <li>- 2 and 3 positions</li> <li>- Maintained or momentary</li> </ul>	<ul style="list-style-type: none"> <li>- Column size: 38, 45, 55mm</li> <li>- 2,3,4 and 6 speeds</li> <li>- Wash, horn or drop-down</li> <li>- Integral packard, Deutsch, wire harness</li> <li>- Handle deak weight: 160lbs</li> </ul>	<ul style="list-style-type: none"> <li>- Rugged design for true time stamp</li> <li>- 0-9999 hours Automatically recycle to zero</li> </ul>
IP/NEMA Ratings	IP55(front)/IP53(back)	IP67 / IP69K	IP67	IP65
Contact Ratings	20A/14VDC, 8A/24VDC	20A/24VDC, 15A/120VAC, 6A/230VAC	2A@12.8VDC (Solenoid load) arc suppression Operating Voltage: 3-32V	6-50VDC
Product Family	TL7 Toggle Switches	TR7 Rocker Switches	PP22 Emergency Stop	ATV Vehicle Switches
Product Picture 				
Body Dimensions (mm) LxWxH	28.6 x 16.5 x 55.8	43.3 x 24.3 x 51.0	22mm Mounting Hole	82 x 67 x 56.5
Enclosure Material	Zinc and fiber-reinforced plastic	Fiber-reinforced plastic	Plastic (94-V0)	Plastic (94-V0)
Characteristics	<ul style="list-style-type: none"> <li>- 1,2 pole circuitry</li> <li>- Available in industrial and mil grade</li> <li>- 2 and 3 positions</li> <li>- Maintained or momentary</li> </ul>	<ul style="list-style-type: none"> <li>- Tough and reliable rocker switch</li> <li>- 1,2 pole circuitry</li> <li>- 2 and 3 positions</li> <li>- Maintained or momentary</li> </ul>	<ul style="list-style-type: none"> <li>- Robust design for harsh environment</li> <li>- Dual O-ring seal</li> <li>- Self cleaning, sliding contact</li> <li>- IP67</li> </ul>	<ul style="list-style-type: none"> <li>- Compact size</li> <li>- Built-in cable gland</li> <li>- Fit 8.5 - 10.5mm cables</li> <li>- Custom Control product designed to meet customer requirements</li> </ul>
Contact Ratings	20A/125VAC, 10A/250VAC, 1.5HP 125/250VAC	20A/125VAC, 10A/250VAC, 1.5HP 125/250VAC	12VDC, 24VDC, 48VDC, 120VAC, 240VAC	12VDC



## Indicator Lights and 12/16/18/22/30mm 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)
Available Colors	Red, blue, green, amber			
Lamp Voltage	6, 12, 24, 48, 120, 240V			
IP/NEMA Ratings	IP40 (IP65 with seal)	IP40 (IP65 with seal)	IP40 (IP65 with seal)	IP40

Product Family	IL-5	IL-6	MB22-FP	MB22-S2
Product Picture				
	Indicator Lights	Indicator Lights	Pushbuttons/Selectors	Mushroom/E-Stop
Mounting Hole Diameter	3/4" (18mm)	22mm	22mm	
Characteristics	- Available colors: red, blue, green, amber, white		- Available colors: red, blue, green, amber, black - 1NO/1NC or 1NO/1NO	
Lamp Voltage	6, 12, 24, 48, 120, 240, 380, 600V		24, 120, 240V	
IP/NEMA Ratings	IP65	IP40 (IP65 with seal)	IP40	

Product Family	PB16-EP	PB16-S2	PB16-SK2	PB16-ET
Product Picture				
	Pushbutton	Selector Switch	Key Selector Switch	Mushroom/E-Stop
Mounting Hole Diameter	16mm	16mm	16mm	16mm
Characteristics	- Available colors: red, blue, green, amber, white - 1NO/1NC or 2NO/2NC B300/R300		- 2 position or 3 position	- 1NO/1NC or 2NO/2NC
Lamp Voltage	24, 120, 240V			
IP/NEMA Ratings	IP40		IP40	

Product Family	PP12	PM16	CPB-12/22/30	CPB-45/60
Product Picture				
	Pushbuttons	Pushbuttons	Capacitive Pushbutton	Capacitive Pushbutton
Mounting Hole Diameter	12mm	16mm	12mm/22mm/30mm	45mm/60mm
Characteristics	- Available colors: red, blue, green, amber - 1NO/1NC - 5A/30VDC, 5A/125VAC	- Available colors: red, blue, green, amber - 1NO/1NC - 10A/30VDC, 10A/125VAC	- Stainless steel - Red/Green - Momentary or Maintained - Output: PNP or NPN	- Robustic plastic - Green - Momentary or Maintained - Output: PNP-NO or NPN
Lamp Voltage			24VDC, 120V or 250V	10-30VDC
IP/NEMA Ratings	IP67/IP68	IP67/IP68	IP69K	IP69K



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



Product Family	EM22	PB22-S/SL	PB22-ES	PB22-ET
Product Picture				
	Emergency Stop	Selector Switch	Emergency Stop	Emergency Stop
Mounting Hole Diameter	22mm	22mm	22mm	22mm
Characteristics	<ul style="list-style-type: none"> <li>- All metal construction</li> <li>- Push-pull</li> <li>- Resistant to impact, vibration and shock</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or metal</li> <li>- 3 or 2-position</li> <li>- Momentary or maintained</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or metal</li> <li>- Push-pull</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or metal</li> <li>- Turn release</li> </ul>
Lamp Voltage	6, 12, 24, 120, 240V		6, 12, 24, 120, 240V	6, 12, 24, 120, 240V
IP/NEMA Ratings	IP67 and IP69K	IP67 (or IP69K)	IP67 (or IP69K)	IP67 (or IP69K)

Product Family	PB22-EPL	PB22-ETL	PB22-MFS	PB22-S2L/S3L
Product Picture				
Mounting Hole Diameter	22mm	22mm	22mm	22mm
Characteristics	<ul style="list-style-type: none"> <li>- Available colors:red, blue, green, yellow, white</li> <li>- Standard and illuminated</li> </ul>	<ul style="list-style-type: none"> <li>- E-stop/turn release</li> </ul>	<ul style="list-style-type: none"> <li>- Available colors:red, green</li> <li>- Standard and illuminated</li> </ul>	<ul style="list-style-type: none"> <li>- Various switching</li> <li>- 1NO/1NC</li> <li>- Standard and illuminated</li> </ul>
Lamp Voltage	6,12,24,120,240V		6,12,24,120,240V	
IP/NEMA Ratings	IP65	IP65	IP65	IP65

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



Product Family	PBM30-FP/EP/GP Pushbuttons	PBM30-S/SL Selector Switches	PBM30-MP Mushroom Buttons	PBM30-ES/ET Emergency Stop
Product Picture				
Characteristics	<ul style="list-style-type: none"> <li>- Plastic or zinc die cast body</li> <li>- Available button colors: red, blue, green, amber, black, white, yellow</li> <li>- Extend, Flush or Guarded</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or zinc die cast body</li> <li>- Available knob colors: red, blue, green, amber, black</li> <li>- Maintained or momentary</li> <li>- 2, 3, 4 positions</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or zinc die cast body</li> <li>- Available colors: red, blue, green, amber, black, white, yellow</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or zinc die cast body</li> <li>- Styles: push-pull</li> </ul>

Product Family	PBM30-SK Key Selector Switches	PBM30-VR Potentiometers	PBM30-JS Joy Stick Switches	PBM30-FP/EP-D/T Illuminated Pushbuttons
Product Picture				
Characteristics	<ul style="list-style-type: none"> <li>- Maintained or momentary</li> <li>- 2, 3, 4 positions</li> </ul>	<ul style="list-style-type: none"> <li>- Available in: 1K, 2.5K, 5K, 10K, 25K</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or zinc die cast body</li> <li>- 3 or 5 positions</li> <li>- Maintained or momentary</li> </ul>	<ul style="list-style-type: none"> <li>- Plastic or zinc die cast body</li> <li>- Available colors: red, blue, green, amber, white, yellow, clear</li> </ul>



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	
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	800 700	TL-30/50/70/90	CB
Product Picture				
	Pendant Control Stations	Visual Signal/Rotating Beacons	Signaling Towers	Alarm Bells
Dimensions (mm)	Various	Various	30mm,50mm, 70mm, 90mm	4, 6, 8, 10 inches
Characteristics	- 94V-0 plastic - Up to 12 switch functions - 1-speed or 2-speed - Interlock options	- LED, Inandescent or strobe - Flashing or steady - Surface mount or pipe mount	- LED or strobe (universal voltage) - Flashing or steady - Sound module	- 6, 12, 24, 120, 240, 380V -Optional weather-proof backbox
IP/NEMA Ratings	IP65 / NEMA 4 / 4X	IP65	IP65	Indoor and Outdoor
Certificates				
Product Family	ESWL	118-F	FSC/FSV	TU TG TH TC
Product Picture				
	Emergency Lights for Elevator	Retiring CAM	Float Switches	Terminal Blocks
Dimensions	5-1/2 x 8-1/2 inch	742x50x84mm	Various	Various
Characteristics	- 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	- Available 1 to 22 position - Current capacity: 15 to 150A
Certificates				



## Industrial Foot Switches



Product Family	FS-1	FS-81	FS-9	FSC-31
Product Picture				
	Light Duty	Light to Medium Duty	Medium Duty	Medium to Heavy Duty
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
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
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

Product Family	FS-5	FS-61	FS-62	FS-41 / FSM-41
Product Picture				
	Heavy Duty	Heavy Duty	Heavy Duty	Heavy Duty
Dimensions (mm)	100 x 200 x 85 157 x 228 x 140 (guarded)	70.5 x 220 x 62 164 x 240 x 157 (guarded)	192 x 220 x 62 275 x 254 x 151 (guarded)	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	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	FS-81R	FS-81-C2	FSM-91-C2	FSC-31-C3
Product Picture				
	Rocker Style	Airval Switch	Airval Switch	Airval Switch
Dimensions (mm)	25 x 29 x 20	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	- 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	- Plastics or zinc cast body - 1/8-27NPT ports - 2-way, 3-way or 4-way - Up to 150 PSI
Contact Ratings	10A, 15A, 120/250VAC			
IP/NEMA Ratings	IP20/IP68			

Product Family	AS-1	FAS-1	FAS-91	FWC-1
Product Picture				
	Air Switches	Air Switches	Air Switches	Welder Foot switch
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	IP68	IP68	IP68



**Medical Foot Switches**    **Featured Products (Available in Standard Switch Outputs or USB Outputs)**

**One Switch Function:**



**One Switch Functions:**



**Two Switch Functions:**



**Three Switch Functions:**



**Four Switch Functions:**

**Five Switch Functions:**



**Six Switch Functions:**



**Customized Solutions:**





## Proximity Sensors / Magnetic Switches

Product Family	SLS/SLC/SCC	SO-6	LC	MP-50
Product Picture				
	Proximity Sensors	Photoelectric Sensors	Load Cells	Bistable Magnetic Switches
Dimensions (mm)	17x17, 25x25, 30x30, 40x40 M8, M12, M18, M30	12.7 x 12.7	Aluminum, steel, stainless	104 x 52 x 47
Characteristics	<ul style="list-style-type: none"> <li>- Shielded and non-shielded</li> <li>- Reverse polarity protection</li> <li>- Short circuit protection</li> <li>- Red LED indicators</li> <li>- 10-36VDC and 20-250VAC, 10-30VDC</li> </ul>	<ul style="list-style-type: none"> <li>- Internal current limiting resistor</li> <li>- Direct TTL interface</li> <li>- Buffer logic</li> <li>- Fast response time</li> <li>- Dust protective housing</li> </ul>	<ul style="list-style-type: none"> <li>- High accuracy, reliable</li> <li>- Various style for different applications</li> <li>- Offer custom solutions</li> </ul>	<ul style="list-style-type: none"> <li>- Aluminium enclosure</li> <li>- Actuating distance up to 50mm</li> <li>- Screw connection</li> <li>- Highly resistant to vibration</li> <li>- Available for actuation from front or side</li> </ul>
Contact Ratings	100mA, 150mA, 200mA, 350mA			1A/120V 0.5A/250V
IP/NEMA Ratings	IP67		IP65, IP67	IP67
Certificates				

