

SUNS[®]

International, LLC

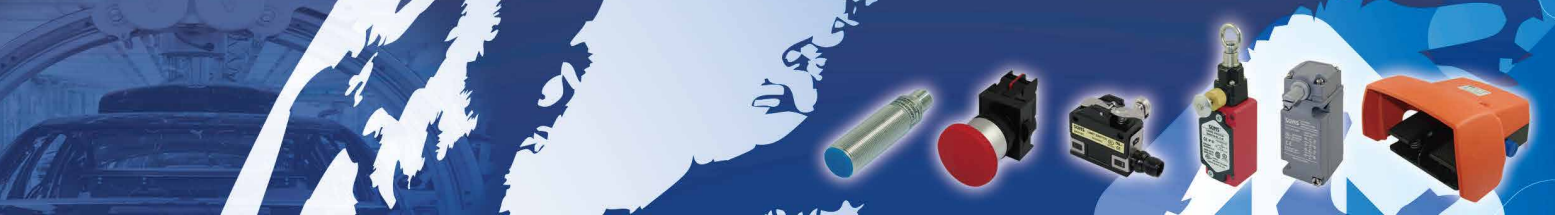
• Innovation • Quality • Service



2024

Industrial Control Components

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



Safety Limit Switches



| Product Family | SMN/SMN4 | SND4/SN4 | SND2/SN2 | SND6/SN6 |
|----------------------------|---|---|---|---|
| Product Picture | Plastic Metal | Plastic Metal | Plastic Metal | Plastic Metal |
| Body Dimensions (mm) LxWxH | 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 |
| 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 |
| IP/NEMA Ratings | IP66 / NEMA 4, 4X, 6 | IP67 / NEMA 4, 6 | IP67 / NEMA 4, 4X, 6 | IP67 / NEMA 4, 6 |
| Contact Ratings | A600/Q300 | A600/Q300 | A600/Q300 | A600/Q300 |

| Product Family | SN62 | SN63 | AZ8 | SN5/SMN5 |
|----------------------------|---|---|---|---|
| Product Picture | Metal | Metal | Metal Base | Metal |
| Body Dimensions (mm) LxWxH | 40 x 40.4 x 69.3 | 57 x 36 x 70 | 28 x 25 x 64 | 33 x 33x 60.5 |
| 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 (Snap action or Slow action) |
| IP/NEMA Ratings | IP67 / NEMA 4, 6 | IP67 / NEMA 4, 6 | IP65 / NEMA 4, 12, 13 | IP66(NEMA 4, 4X, 6) |
| Contact Ratings | A600/Q300 | A600/Q300 | A600/Q300 | A600/Q300 |

| Product Family | HMS/HLS Heavy Duty NEMA Style | HNS Heavy Duty NEMA Style | SP9 Enclosed Limit Switches | SF9 Enclosed Limit Switches |
|----------------------------|---|--------------------------------|--|--------------------------------------|
| Product Picture | Metal Metal | Metal Stainless steel | Metal | Metal |
| Body Dimensions (mm) LxWxH | HMS: 42 x 44.6 x 80 HLS: 42 x 44.6 x 102.5 | 42 x 44.6 x 102.5 | 93 x 51.3 x 65 | 102.2 x 33 x 54.8 |
| Contact Configuration | HMS: 1NO/1NC HLS: 1NO/1NC, 2NO/2NC | 1NO/1NC, 2NO/2NC | SPDT/DPDT | SPDT/DPDT |
| IP/NEMA Ratings | IP67 / NEMA 4, 6 | IP67 / NEMA 4, 6 | IP65 / NEMA 4 | IP65 / NEMA 4 |
| Contact Ratings | A600/Q300 | A600/Q300 | 10A, 15A, 20A, 25A (125, 250, 480V) | 10A, 15A, 20A, 25A 125/250/480VAC |



| Product Family | SN31 Pre-wired (IP67) | SN32 Pre-wired (IP67) | SM31/SM31N Modular(IP67) | SM32/SM32N Modular(IP67) |
|----------------------------|----------------------------------|----------------------------------|---|---|
| Product Picture | Metal | Metal | Metal Plastic | Metal Plastic |
| Body Dimensions (mm) LxWxH | 30 x 16 x 50 | 40 x 16 x 50 | SM31: 30 x 16 x 50 SM31N: 30 x 16 x 50 | SM32: 37.3 x 16 x 50 SM32N: 37.3 x 16 x 50 |
| 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 |

| Product Family | SNB/SNBP Crane Limit Switches | SNH Belt Alignment Switches | MP50 Bistable Magnetic Switches | HEN Environmentally Sealed |
|----------------------------|---|--------------------------------|------------------------------------|-------------------------------|
| Product Picture | Metal Plastic | Metal | Metal | Stainless Steel |
| Body Dimensions (mm) LxWxH | SNB: 77 x 35.6 x 81 SNBP: 73 x 37 x 81 | 85 x 53 x 85 | 104 x 52 x 47 | 66 x 25 x 25 |
| Contact Configuration | 2NO/2NC, 4NC | 1NO/1NC, 2NO, 2NC | 1NO/1NC, 1NO, 1NC, 2NO, 2NC | 1NO/1NC, 2NO/2NC, 4NO/4NC |
| IP/NEMA Ratings | IP66 / NEMA 4 | IP54 / NEMA 5 | IP67 | IP67 |
| Contact Ratings | A600/Q300 | A600/Q300 | 1A/120V 0.5A/250V | 7A/28VDC |

| Product Family | SN1 Precision Limit Switches | SN9 Enclosed Limit Switches | CP8104 Heavy Duty Limit Switch | 6098 |
|----------------------------|---------------------------------|--|--|----------------------------------|
| Product Picture | Metal | Metal | Metal | Metal |
| Body Dimensions (mm) LxWxH | 44.5 x 18 x 32.4 | 86 x 25.5 x 44.6 | 100 x 61 x 120 | 80 x 40 x 140 |
| Contact Configuration | SPDT | SPDT/DPDT | 1NO/1NC, 2NO, 2NC, 3NO/3NC, 4NO/4NC | 1NC, 1NO, 2NC, 2NO |
| IP/NEMA Ratings | IP67 / NEMA 4, 6 | IP60 or IP66 (NEMA 4) | IP67 / NEMA 4, 6 | |
| Contact Ratings | 5A 250VAC / 5A 30VDC | 10A, 15A, 20A, 25A (125, 250, 480V) | 25A/600V, A600/Q300 | 5A 120/250VAC 2.5A 120/250VDC |



ATEX, Class I, Class II Switches for Hazardous Environment

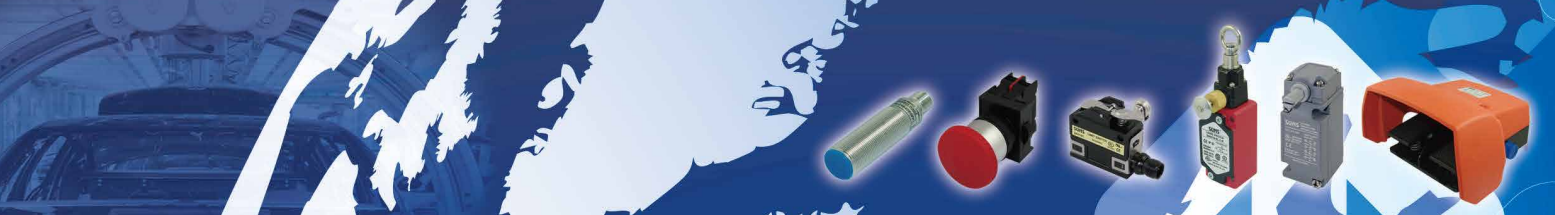


| Product Family | EEX-S31/S32/S35/S36 | X3V/X4V | EEX-PB30 (CSP) | EEX-SN31/32 |
|-----------------|--|---|---|---|
| Product Picture | | | | |
| Dimensions (mm) | 25.5 x 11 x 46.2 25.5 x 17.6 x 46.2 | 40 x 18 x 10 | Various | 40 x 42 x 78 |
| Characteristics | <ul style="list-style-type: none"> II 2G EEx d IIC Gb I M2 EEx d I Mb 94V-0 plastic | <ul style="list-style-type: none"> II 2G EEx d IIC Gb I M2 EEx d I Mb | <ul style="list-style-type: none"> II 2G EEx d IIC Gb I M2 EEx d I Mb - Pushbutton, Selector - Emergency Stop - Control Stations | <ul style="list-style-type: none"> II 2G EEx d IIC Gb I M2 EEx d I Mb |
| Contact Ratings | A300/Q300 | 250VAC | A300/Q300 | A300/Q300 |
| IP/NEMA Ratings | IP67 | IP54 | 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 141.5 |
| Characteristics | <ul style="list-style-type: none"> - Class I and Class II - Explosion-proof - Cable entry: M25, 3/4NPT - SPDT, DPDT or 2-stage - Various head styles | <ul style="list-style-type: none"> - Class I and Class II - Explosion-proof - Cable entry: M20, 1/2NPT - 1NO/1NC or 2NO/2NC - Various head styles | <ul style="list-style-type: none"> - Class I and Class II - Explosion-proof - Cable entry: M20, 1/2NPT, 3/4NPT - 1NO/1NC, 2NO/2NC - Various head styles | <ul style="list-style-type: none"> - Class I and Class II - Explosion-proof - Cable entry: M20, 1/2NPT, 3/4NPT - 1NO/1NC, 2NO/2NC - Various head styles |
| 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 |

Specialty Limit Switches

| Product Family | SND4-NH Hall Effect Limit Switches | SN6/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 | <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> - Reliable, flexible and secure wireless transmission - Variety of antenna options - Extremely long battery life - Various head styles | <ul style="list-style-type: none"> - High precision gears for compact hoisting - Cam adjustments at fixed position - Various Housing for harsh environment | <ul style="list-style-type: none"> - High precision gears for compact hoisting - Cam adjustments at fixed position - Various Housing for harsh environment |
| Contact Ratings | Analog Output:0-5VDC | | 11A 1/2HP 125/250VAC | 11A 1/2HP 125/250VAC |
| IP/NEMA Ratings | IP67 | IP67 | IP67 | IP67 |



Safety Switches



| Product Family | Key Interlock Switches | SM31N-91 Key Interlock Switches | SSD2191/4691 Solenoid Key Interlock | SS6391 Solenoid Key Interlock | | |
|----------------------------|---|--|--|--|--------|--------|
| Product Picture | | | | | | |
| Body Dimensions (mm) LxWxH | Various | 36 x 16 x 50 | 58 x 31.8 x 94 or 88.5 x 35.5 x 95 | 110 x 40 x 150 | | |
| Enclosure Material | Fiber-reinforced plastic or Metal zinc die cast | Fiber-reinforced plastic | Fiber-reinforced plastic | Metal zinc die cast | | |
| 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 | - 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 | 3NO/3NC, 4NO/4NC | | |
| IP/NEMA Ratings | IP67 / NEMA 4, 4X | IP67 / NEMA 4, 6 | IP66 / NEMA 4, 4X | IP66 / NEMA 4, 4X | | |
| Contact Ratings | A600/Q300 | B300/R300 | A600/Q300 | A600/Q300 | | |
| Actuator | | SND-K1 | SND-K2 | SND-K3 | SM3-K1 | SM3-K2 |
| Certificates | | | | | | |

| Product Family | SS6191/SSD6191 Solenoid Key Interlock | SS6292 Solenoid Key Interlock | Hinge Safety Switch | Magnetic Safety | | | |
|----------------------------|--|--|--|---|-------|-------|---------|
| Product Picture | | | | | | | |
| Body Dimensions (mm) LxWxH | 40 x 46 x 194 | 40 x 42 x 78 | Various | Various | | | |
| Enclosure Material | Fiber-reinforced plastic or Metal zinc die cast | Zinc alloy | Fiber-reinforced plastic | 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 | - Conform to EN50041 - 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 | - Non-Contact - Coded or non-coded magnet - 10 million operations - Switching distance: 6-15mm, 9-18mm | | | |
| Contact Configuration | 2NO/2NC, 3NC/1NO, 4NC | | 1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO | | | | |
| IP/NEMA Ratings | IP66 / NEMA 4, 4X | IP67 / NEMA 4, 6 | IP67 / NEMA 4, 4X, 6 | IP67(MP MH)/IP69K(MF) | | | |
| Contact Ratings | A600/Q300 | C150/R150 | A600/Q300 | 400mA 100V 10mA 24VDC | | | |
| Actuator | | SN-K1 | SN-K2 | SN-K3 | SN-K4 | SN-K5 | SS6-SHK |
| Certificates | | | | | | | |



Cable Pull Switches

| Product Family | SN4170/SND4170 | SN6170/SND6170 | SN2170 | SN6271 |
|----------------------------|---|--|---|--|
| Actuating force | 20N | 50N 80N | 20N | 150N |
| 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"> - Max span 5 meters (16 ft) - One-way or two-way actuation - Pull-on/pull-off option - Lock and resettable option - Cable entry: M20, PG13.5 1/2NPT | <ul style="list-style-type: none"> - Max span 15 meters (49 ft) - One-way or two-way actuation - Lock and resettable option - Cable entry: PG13.5, 1/2NPT, M20 | <ul style="list-style-type: none"> - Max span 5 meters (16 ft) - Conforms to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT (x3) | <ul style="list-style-type: none"> - 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 | CP7170/8170 | HES/HEX Explosion-proof | HNS | CP-61 Anti-Two-Block Switch |
|----------------------------|--|---|--|--|
| Product Picture | 250N | 80N | 80N | |
| 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"> - 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 | <ul style="list-style-type: none"> - Max span 160 meters (524 ft) - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts | <ul style="list-style-type: none"> - Max span 30 meters (98ft) - Heavy duty body | <ul style="list-style-type: none"> - 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 |
| IP/NEMA Ratings | IP67 / NEMA 4 | IP67 / NEMA 4 | IP67 / NEMA 4, 6 | IP67 |
| 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 | | | | |
| Enclosure Material | Zinc or Plastic | Plastic | Plastic | Plastic |
| Characteristics | <ul style="list-style-type: none"> - Easy snap-in or nut mount - Available in 2, 3 or 4 pos - Various circuit configurations | <ul style="list-style-type: none"> - Easy snap-in installation - Standard .032 x .250 blade terminals | <ul style="list-style-type: none"> - Easy snap-in installation - Standard .032 x .250 blade terminals | <ul style="list-style-type: none"> - Easy snap-in installation - Standard .032 x .250 blade terminals |
| 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 |
| Contact Ratings | 20A/14VDC, 5A/60VDC | 5A, 10A/14VDC | 3A/14VDC | 3A/14VDC |
| Product Family | IHP/IHM Ignition Switches | PL30 Ignition Switches | TL7 Toggle Switches | TN8/TL8 Toggle Switches |
| Product Picture | | | | |
| Enclosure Material | Zinc alloy or fiber reinforced plastic | Fiber-reinforced plastic | Phenolic | Zinc and fiber-reinforced plastic |
| Characteristics | <ul style="list-style-type: none"> - 22mm nut mount - Available in 2, 3 or 4 pos. - Various circuit configurations - Screw terminal or Dephi/Deutsch connectors | <ul style="list-style-type: none"> - Modern ignition design - Momentary push to start - 30mm mounting hole - Integrated connector | <ul style="list-style-type: none"> - 1, 2 pole circuitry - Available in industrial and mil grade - Maintained or momentary | <ul style="list-style-type: none"> - 1, 2 and 4 pole circuitry - Available in industrial and mil grade - 2 and 3 positions - Maintained or momentary |
| IP/NEMA Ratings | IP55(front)/IP53(back) | IPX9K(front)/IP67(back) | IP65 | 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 |
| Product Family | TW1 | TR3 Rocker Switches | TR4 Rocker Switches | TR5A Rocker Switches |
| Product Picture | | | | |
| Enclosure Material | Fiber-reinforced plastic | Fiber-reinforced plastic | Fiber-reinforced plastic | Fiber-reinforced plastic |
| Characteristics | <ul style="list-style-type: none"> - Miniature design sealed toggle switch - 1, 2 pole circuitry - Maintained or momentary | <ul style="list-style-type: none"> - Tough and reliable rocker switch - 1, 2 pole circuitry - Maintained or momentary | <ul style="list-style-type: none"> - Tough and reliable rocker switch - 1, 2 pole circuitry - Maintained or momentary | <ul style="list-style-type: none"> - Tough and reliable rocker switch - 1, 2 pole circuitry - Maintained or momentary |
| Contact Ratings | 5.0A 0.5VDC to 28VDC 5.0A 0.5VAC to 115VAC | 20A/125VAC, 10A/250VAC, 1.5HP 125/250VAC | 20A/125VAC, 10A/250VAC, 1.5HP 125/250VAC | 20A/125VAC, 10A/250VAC, 1.5HP 125/250VAC |
| Product Family | TR5B/TR5C/TR5D Rocker Switches | PP22 Emergency Stop | BD150/BDS150 DC Disconnect | DHM DC Hour Meters |
| Product Picture | | | | |
| Enclosure Material | Fiber-reinforced plastic | Plastic (94-V0) | Fiber-reinforced plastic | Plastic |
| Characteristics | <ul style="list-style-type: none"> - Tough and reliable rocker switch - 1, 2 pole circuitry - Maintained or momentary | <ul style="list-style-type: none"> - Robust design for harsh environment - Dual O-ring seal - Self cleaning, IP67 | <ul style="list-style-type: none"> - Safely rupture full load currents upon emergency - Optional auxiliary switch - IP55 rated | <ul style="list-style-type: none"> - Rugged design for true time stamp - 0-9999 hours Automatically recycle to zero |
| Contact Ratings | 15A 125VAC / 10A 250VAC(GP) 1.5HP 125/250VAC 20A 4-14VDC / 15A 15-28VDC | 12VDC, 24VDC, 48VDC, 120VAC, 240VAC | Up to 150A DC | 6-50VDC |



Switches for Vehicles and Transportation

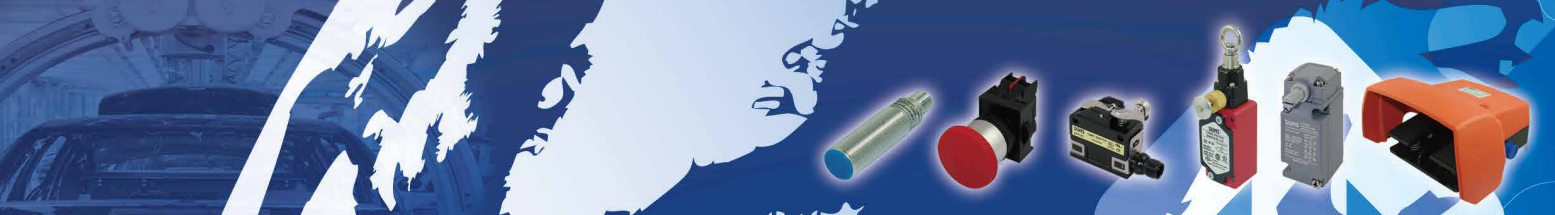


| Product Family | SRP/SRY/SRJ Rotary Sensor | HSS Speed Sensor | PH-12 Linear Pushbutton | HNP2 Hall Effect Paddle |
|--------------------|--|---|---|--|
| Product Picture |  |  |  |  |
| Enclosure Material | Fiber-reinforced Plastic | Fiber-reinforced Plastic | Fiber-reinforced Plastic | Fiber-reinforced Plastic |
| Characteristics | <ul style="list-style-type: none"> - Solid-state hall-effect sensor - Integrated reverse polarity short circuit protection - Voltage/PWM/Current output | <ul style="list-style-type: none"> - Quadrature speed and direction sensor with 4-wire - Differential Hall - Near zero speed | <ul style="list-style-type: none"> - Hall effect for reliable contactless switching - 10 million cycles - IP67 | <ul style="list-style-type: none"> - Hall effect linear control - Positive tactile feedback - Analog or PWM outputs - IP67 |
| 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 |

| Product Family | TRS Mini Trim Switches | ATV Vehicle Switches | BAL Backup Alarm | TL70/TL90 Warning Light |
|--------------------|--|--|--|--|
| Product Picture |  |  |  |  |
| Enclosure Material | Aluminum Alloy | Plastic (94-V0) | Fiber-reinforced Plastic | Fiber-reinforced Plastic |
| Characteristics | <ul style="list-style-type: none"> - Compatible with trim control - 2,4 or 8-way toggle action - Tactile or silent - Sealed to IP68S | <ul style="list-style-type: none"> - Compact size - Built-in cable gland - Fit 8.5 -10.5mm cables - Custom Control product | <ul style="list-style-type: none"> - Various voltage and sound pressure level - Universal mounting bracket - Sealed to IP65 | <ul style="list-style-type: none"> - Pulse8 (8 flash per cycle) flash pattern - Perfect replacement solution for strobe beacon |
| Contact Ratings | 2A/28VDC, 10mA/5VDC | 12VDC | 12-80VDC | 12-80VDC/85-130VAC |

| Product Family | JST-2 Joystick | JST-4 Joystick | JST-6/JST-7 Joystick | VSMT Shifter/Turn Signal |
|--------------------|--|--|---|--|
| Product Picture |  |  |  |  |
| Enclosure Material | Plastic housing w/ Zinc Column | Plastic housing w/ Zinc Column | Plastic housing w/ Zinc Column | Plastic housing with Zinc cast column |
| Characteristics | <ul style="list-style-type: none"> - Single axis hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - SAE J1939 CAN output | <ul style="list-style-type: none"> - Dual axis hall effect joystick - For heavy duty industrial app. - 5 million operating cycles - SAE J1939 CAN output | <ul style="list-style-type: none"> - Single/dual axis hall effect - Various button/rocker option - Miniature base mounting - SAE J1939 CAN output | <ul style="list-style-type: none"> - Column size: 38, 45, 55mm - 2, 3, 4 and 6 speeds - Integral packard, Deutsch, wire harness - Handle deak weight: 160lbs |
| Operating Voltage | 4.5-7.5 VDC | 4.5-7.5 VDC | 4.5-32 VDC | 2A@12.8VDC (Solenoid load) arc suppression 3-32V |

| Product Family | SCB/SCJ CAN-BUS Keypad | SCIO CAN-BUS I/O | SCM CAN-BUS Control Module | SCD CAN-BUS Display Module |
|--------------------|---|---|--|---|
| Product Picture |  |  |  |  |
| Enclosure Material | Silicone Rubber | Fiber-reinforced Plastic | Cast Aluminum | Fiber-reinforced Plastic |
| Characteristics | <ul style="list-style-type: none"> - Rubber overmold for water and shock resistance - SAE J1939 CAN output - Up to IP69K | <ul style="list-style-type: none"> - Convert traditional signals (analog/digital) to CAN bus output - Up to IP69K | <ul style="list-style-type: none"> - CAN-BUS solid-state controller - Up to 42 high-side outputs - Reverse polarity protection - Up to IP69K | <ul style="list-style-type: none"> - For various vehicle functions - ISO 15765 OBD access - Custom I/O - Up to IP65 |
| Operating Voltage | 8-32VDC | 8-32VDC | 18-32VDC | 9-32VDC |



Elevator Door Safety Interlock



| Product Family | SSD4 Latching Limit Switch | SM31N-91/SND4121 Door Interlock | SXP Door Interlock | EDC-5/ EDC-6 Door Contact |
|----------------------------|--|---|---|---|
| Product Picture | | | | |
| Body Dimensions (mm) LxWxH | 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 |
| Enclosure Material | Fiber-reinforced plastic | Plastic (94-V0) | Plastic (94-V0) | Plastic (94-V0) |
| Characteristics | <ul style="list-style-type: none"> - Conforms to EN50047 - Positive opening contact - Remote reset - Galvanically separated contacts - 3-Conduit entries: M16 | <ul style="list-style-type: none"> - Conforms to EN50047 - Positive opening contact | <ul style="list-style-type: none"> - Long service life - Pull to test function - Double break - Positive opening contact for SXP1 | <ul style="list-style-type: none"> - Self-cleaning double break contact for long service life - Positive opening contact - B44-16 safety standard for SXP1 |
| 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 | IP20/IP54(Only for 61-X4) |
| Contact Ratings | A600/Q300 | A600/Q300 | A300 (10A, 300V) | 2A/230VAC; 2A/200VDC |

| Product Family | EDL-1 Door Contact | EDL-2 Door Interlock | EDL-3 Door Interlock | SS6291 Door Solenoid Interlock |
|----------------------------|---|--|--|---|
| Product Picture | | | | |
| Body Dimensions (mm) LxWxH | 129 x 36 x 87 | 133.9 x 70 x 277.5 | 194.5 x 71.5 x 278.1 | 247.7 x 48 x 42 |
| Enclosure Material | Aluminum die cast | Aluminum die cast | Aluminum die cast | Zinc die cast |
| Characteristics | <ul style="list-style-type: none"> - Robust double break contact for elevators - Positive opening contact - B44-16 safety standard | <ul style="list-style-type: none"> - Robust double break contact for swing/slide door - Positive opening contact - B44-16 safety standard - Various shaft lengths and roller actuators | <ul style="list-style-type: none"> - Robust double break contact for swing/slide door - Positive opening contact - B44-16 safety standard - Various shaft lengths and roller actuators | <ul style="list-style-type: none"> - 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 | 1NC | 1NC | 1NC + 1NC | 2NC |
| IP/NEMA Ratings | IP20 | IP20 | IP20 | IP65 |
| Contact Ratings | 2A/230VDC | 2A/230VDC | 2A/230VDC | 0.5A/24VDC |

Micro Switches

| 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 | 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 |
| 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 |



Micro Switches



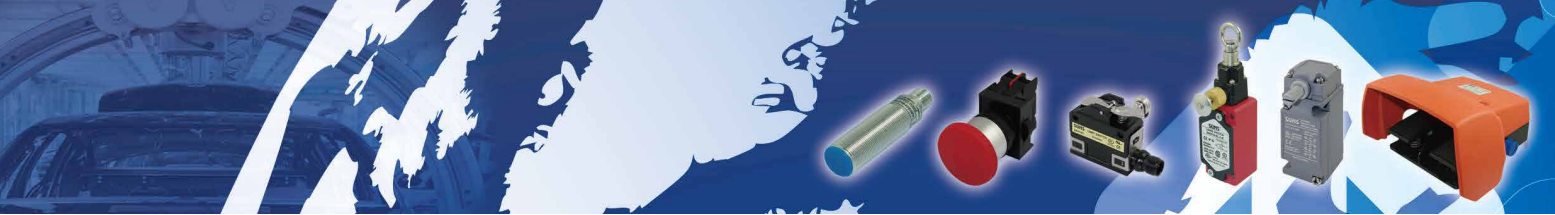
| Product Family | X3/X4 Sub-Miniature | X3M Sub-Miniature | ZM3 Sub-Miniature | ZM3M Sub-Miniature |
|----------------------------|--|---------------------------------|--|--|
| Product Picture | | | | |
| Body Dimensions (mm) LxWxH | X3:12.7 x 8.9 x 5.0 X4:13 X 9 X 5.1 | 15.7 x 15 x 8 | 19.8 x 12.4 x 6.4 | 22.1 X 15.2 X 8.8 |
| 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 |

| Product Family | VA-16G/VS-16G VB-16G/VM-16G | VS-W | VS16-AC/VM16-AC ZM3-AC | VP/VC |
|----------------------------|--------------------------------|--|---------------------------|---------------------------------------|
| Product Picture | | | | |
| Body Dimensions (mm) LxWxH | 27.8 x 10.3 x 13.1 | 33 x 10.3 x 15.9 | Various | 27.8 x 10.3 x 13.1 |
| 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 |

| 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 27.9(22.7) | 49.2 x 17.4 x 24.3 | 63.6 x 21.1 x 26.2(30) |
| Current Rating | 15A/20A/25A 125/250/480VAC | 10A 1/2HP 125/250VAC | 15A 125/250/480VAC | 10A 1/2HP 125/250VAC |

| 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(28.6) |
| Current Rating | 5A 28VDC 125/250VAC | 10A or 15A 1/2HP 125/250VAC | 10A 125/250VAC | 15A/25A 250VAC |

| 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 |



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

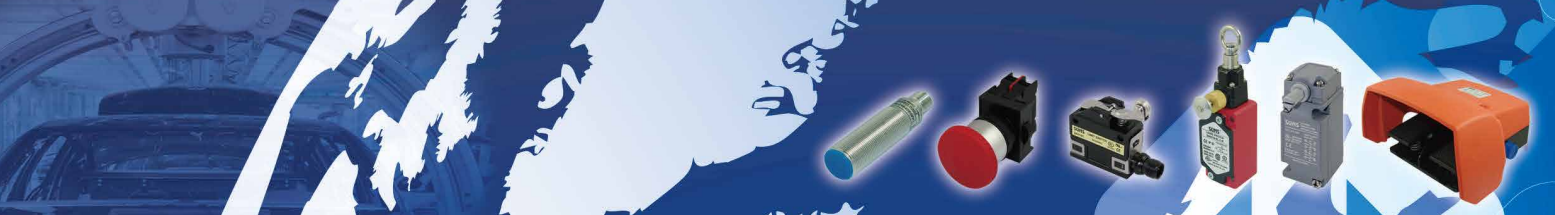


| Product Family | IL-1 | IL-2 | IL-3 | IL-4 |
|------------------------|--------------------------|-----------------------|-----------------------|-----------------------|
| Product Picture | | M8x0.5 | M12x1 | |
| | Indicator Lights | Indicator Lights | Indicator Lights | Indicator Lights |
| Mounting 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 | IP40 (IP65 with seal) | IP40 (IP65 with seal) | IP40 (IP67 with seal) |

| Product Family | IL-5 | IL-6 | PB16-EP/ET | PB16-S2/SK2 |
|------------------------|--|------------------|---|-------------------|
| Product Picture | | | | |
| | Indicator Lights | Indicator Lights | Pushbuttons/E-Stop | Selector Switches |
| Mounting Hole Diameter | 3/4" (18mm) | 22mm | 16mm | |
| Characteristics | - Available colors: red, blue, green, amber, white | | - Available colors: red, blue, green, amber, black - 1NO/1NC, 2NO or 2NC | |
| Lamp Voltage | 6, 12, 24, 48, 120, 240V | | 24, 120, 240V | |
| IP/NEMA Ratings | IP65 | IP40 | IP40 | |

| Product Family | MB22 | PBL16 Low Profile illuminated 16mm Pushbuttons |
|------------------------|--|---|
| Product Picture | Pushbuttons Selector Switches Key Selector Switches E-Stop/Turn Release | |
| Mounting Hole Diameter | 22mm | 16mm |
| Characteristics | - Various styles and colors: red, blue, green, amber, white - 1NO/1NC or 2NO/2NC | - Various styles and colors: red, blue, green, amber, white - 1NO, 1NC, 1NO/1NC or 2NC |
| Lamp Voltage | 12, 24, 36, 48, 120, 240V | 12, 24, 36, 48, 120, 240V |
| IP/NEMA Ratings | IP40 | IP65/IP69K |

| Product Family | PP12 | PM16 | PW22 Marine Pushbutton | CPB Capacity Pushbutton |
|------------------------|--|---|--|---|
| Product Picture | | | | |
| | Pushbuttons | Pushbuttons | Pushbutton | Capacitive Pushbutton |
| Mounting Hole Diameter | 12mm | 16mm | 22mm | 45mm/60mm |
| Characteristics | - Available colors: red, blue, green, amber - 1NO/1NC | - Available colors: red, blue, green, amber - 1NO/1NC - Momentary or Maintained | - Illuminated - Custom legends - Momentary or Maintained | - Robustic plastic - Two-color indicator - Momentary or Maintained - Output: PNP-NO or NPN |
| Lamp Voltage | 5A/30VDC, 5A/125VAC | 10A/30VDC, 10A/125VAC | 10-30VDC | 10-30VDC |
| IP/NEMA Ratings | IP67/IP68 | IP67/IP68 | IP65 | IP69K |



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



| Product Family | EM22 | PB(M)22-S/SL | PB(M)22-ES | PB(M)22-ET |
|------------------------|---|--|-----------------------------------|--|
| Product Picture | | | | |
| | Emergency Stop | Selector Switch | Emergency Stop | Emergency Stop |
| Mounting Hole Diameter | 22mm | 22mm | 22mm | 22mm |
| Characteristics | - All metal construction - Push-pull - Resistant to impact, vibration and shock | - Plastic or metal - 3 or 2-position - Momentary or maintained | - Plastic or metal - Push-pull | - Plastic or metal - Turn release - Standard and illuminated |
| 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 |

| Product Family | PB22-EPL | PB22-ETL | PB22-MFS | PB22-S2L/S3L |
|------------------------|--|-----------------------|---|--|
| Product Picture | | | | |
| Mounting Hole Diameter | 22mm | 22mm | 22mm | 22mm |
| Characteristics | - Available colors:red, blue, green, yellow, white - Standard and illuminated | - E-stop/turn release | - Available colors:red, green - Standard and illuminated | - Various switching - 1NO/1NC - Standard and illuminated |
| Lamp Voltage | 6,12,24,120,240V | | 6,12,24,120,240V | |
| IP/NEMA Ratings | IP65 | IP65 | IP65 | IP65 |

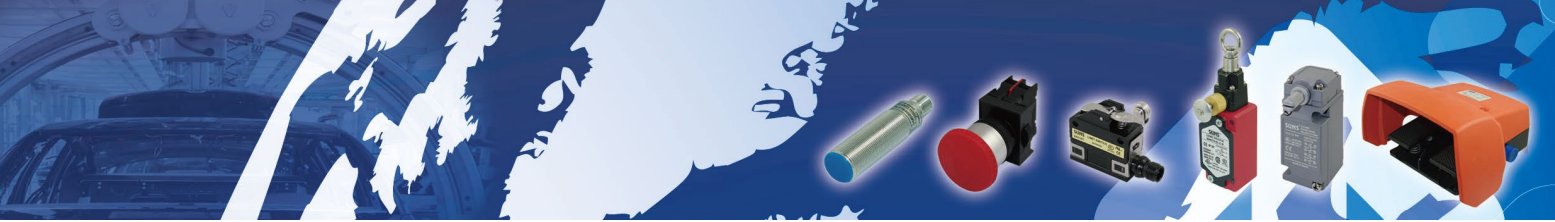
30mm Operators (IP65, NEMA 4, 4X, A600/Q600)



| Product Family | PBM30 | | | | | | |
|-----------------|--|--|--|---|--|--|--|
| 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 | | | |

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

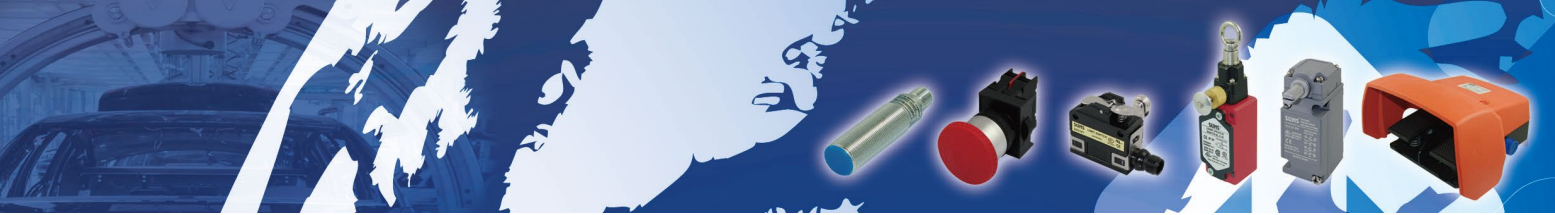
| Product Family | 12mm | 16mm | 19mm | 22mm | 30mm |
|-----------------|--|------|------|------|------|
| Product Picture | | | | | |
| Characteristics | - Stainless steel or nickel plated brass housing - 6, 12, 24, 120, 240V LED options - Robust long life design, IP65 rated - Available in momentary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



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 | | 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 | - Aluminium alloy 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 | 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 MED110 MED170

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* FS83R-10W-W* FS73-10W* FSR23*

Eight Switch Functions:



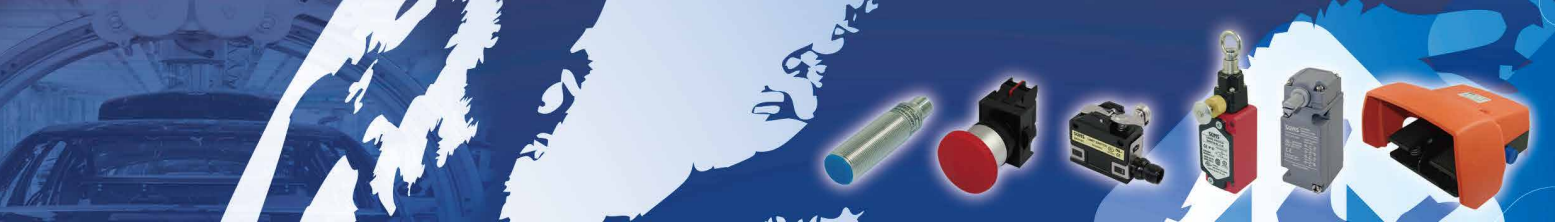
FSB-68* FS-81R(4-PEDAL)

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 |
|-----------------|--|---|---|--|
| Product Picture |  |  |  |  |
| | Proximity Sensors | Photoelectric Sensors | Load Cells | Terminal Blocks |
| Dimensions (mm) | 17x17, 25x25, 30x30, 40x40 M8, M12, M18, M30 | 12.7 x 12.7 | Aluminum, steel, stainless | Various |
| Characteristics | <ul style="list-style-type: none"> - Shielded and non-shielded - Reverse polarity protection - Short circuit protection - Red LED indicators - 10-36VDC and 20-250VAC, 10-30VDC | <ul style="list-style-type: none"> - Internal current limiting resistor - Direct TTL interface - Buffer logic - Fast response time - Dust protective housing | <ul style="list-style-type: none"> - High accuracy, reliable - Various style for different applications - Offer custom solutions | <ul style="list-style-type: none"> - Available 1 to 22 position - Current capacity: 15 to 150A |
| Contact Ratings | 100mA, 150mA, 200mA, 350mA | | | |
| IP/NEMA Ratings | IP67 | IP67 | IP65, IP67 | |
| Certificates |  |  |  |  |



North & South America

▶ USA SUNS International LLC 127 Riverneck Road, Chelmsford, MA 01824, tel. +1-978-349-2329, fax +1-978-349-2330
Email: info@suns-usa.com http://www.suns-usa.com

Asia Pacific / China

▶ China/Shanghai SUNS Industrial Switch (Shanghai) Co. Unit I, 11F, West Building 668 Beijing East Road Huangpu District, Shanghai, China, 200001, tel. +86-21-53082745 fax +86-21-53082746
▶ China/Zhangzhou SUNS Electric (Zhangzhou) Co. Ltd. No. 169 Wengjiao Road, Zhangzhou Taiwanese Investment Zone, Fujian Province, China, tel. +86-596-6078266 fax +86-596-6078266

Europe

▶ Germany SUNS/EFA GmbH Mollwitzstrasse 2, D-14059, Berlin, Tel. +49 30 3011187-0 Fax +49 30 3011187-77
▶ France SUNS/EFA France GmbH Z.A. La Haute Limougere, 3, rue Claude Chappe, F-37230 Fondettes. Tel. +33 247617850 Fax +33 247617851
▶ Greece SUNS/TOP Electronic Components S.A. 66 Alkminis & Aristovoulou Str. K. Petralona, 118 53, Athens, Ph: +30 210 3428690 Fax No.: +30 210 342869
▶ Poland SUNS/Indual Sp.z o.o. Centrala firmy 26-220 Staporkow ul. Staszica 5 tel:+48 41 374 02 67 fax: +48 41 374 02 66