

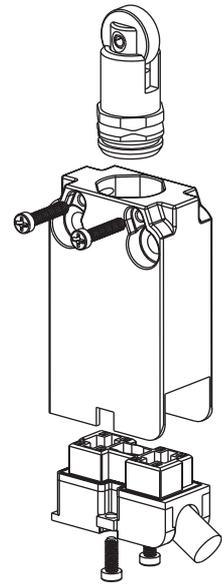
Compact Safety Limit Switches (Modular Design, Metal body, IP67) SM31 SERIES (20mm) and SM32 SERIES (25mm)

Selection Guide:

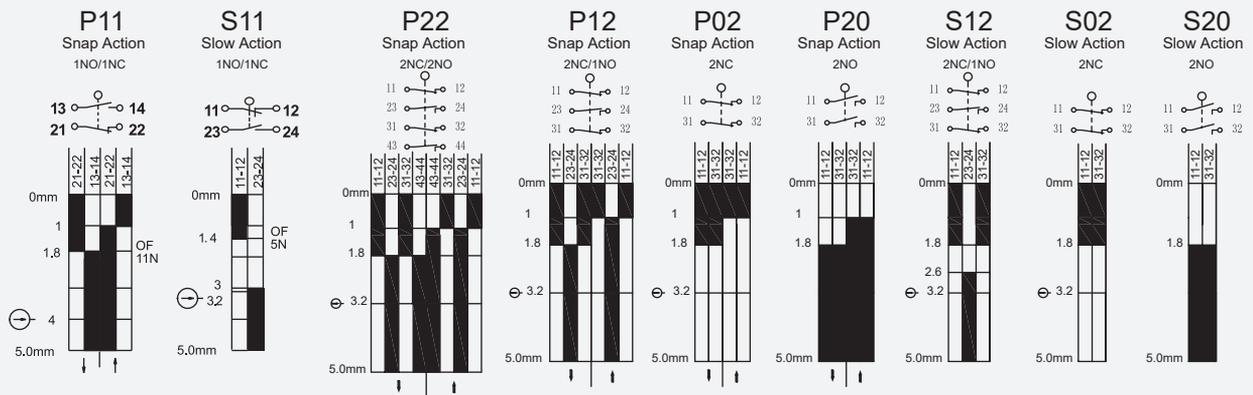
SM3	1	-	P		11	-	12		H	-	A		2
Housing								Head Style					
20mm mounting	1		P Snap Action		11 1NO/1NC			Blank Standard head					2 2 meters cable
25mm mounting	2		S Slow Action		12 1NO/2NC			H Horizontal head					
					20 2NO						A Cable side exit		
					21 2NO/1NC						B Cable bottom exit		
					22 2NO/2NC						Q1 M12 connector side exit 4 pin		
					02 2NC						Q2DT DT connector bottom exit 4 pin		
											Q3 M12 connector bottom exit 5 pin		

Specification

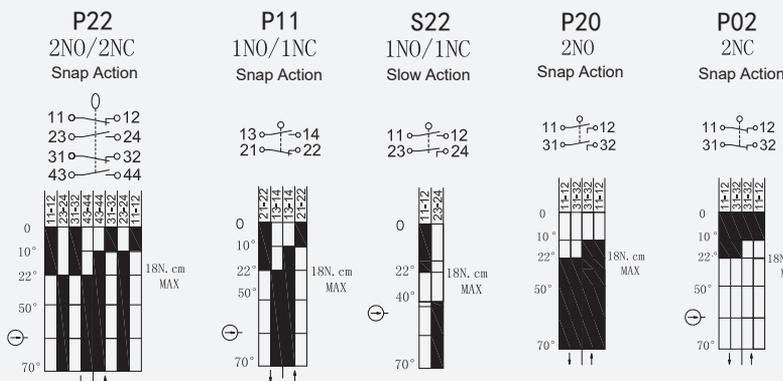
Operating Speed	0.05mm-2m/sec		
Operating Frequency	Mechanical: 120ops/min Electrical: 30 ops/min		
Insulation Resistance	>100M Ω @500V DC		
Contact Resistance	<25m Ω (initial value)		
Rated Voltage	300V AC (EN60947-5-1)		
Rated Thermal Current	5A		
Electrical Rating	AC15 B300 DC13 R300		
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts		
Service Life	Mechanically 1 x 10 ⁷ (operations) Electrically 2 x 10 ⁶ (operations)		
Operating Temperature	-25~+85°C without formation of ice		
Humidity	< 95%RH		
Cable	5 core, 0.75mm ²	7 core, 0.5mm ²	9 core, 0.34mm ²
Degree of Protection	IP67		



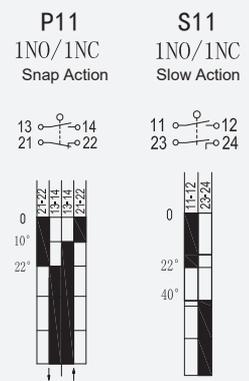
Plunger Style:



Rotary Style:



Spring Coil Style:



Compact Safety Limit Switches (Modular Design, IP67, 20mm) SM31 SERIES (20mm)

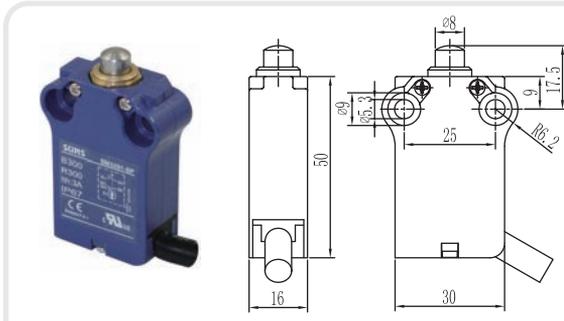
<p>Order Code Contact block</p> <p>SM31P11-01 SP \ominus snap action 1NO+1NC</p> <p>SM31S11-01 SL \ominus slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31P11-12 SP \oplus snap action 1NO+1NC</p> <p>SM31S11-12 SL \oplus slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM31P11-11 SP \ominus snap action 1NO+1NC</p> <p>SM31S11-11 SL \ominus slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31P11-22 SP \ominus snap action 1NO+1NC</p> <p>SM31S11-22 SL \ominus slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM31P11-21 SP \ominus snap action 1NO+1NC</p> <p>SM31S11-21 SL \ominus slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31P11-02 SP \oplus snap action 1NO+1NC</p> <p>SM31S11-02 SL \oplus slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM31P11-31 SP \ominus snap action 1NO+1NC</p> <p>SM31S11-31 SL \ominus slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31P11-03 SP \oplus snap action 1NO+1NC</p> <p>SM31S11-03 SL \oplus slow action 1NO+1NC BBM</p>

Compact Safety Limit Switches (Modular Design, IP67, 20mm) SM31 SERIES (20mm)

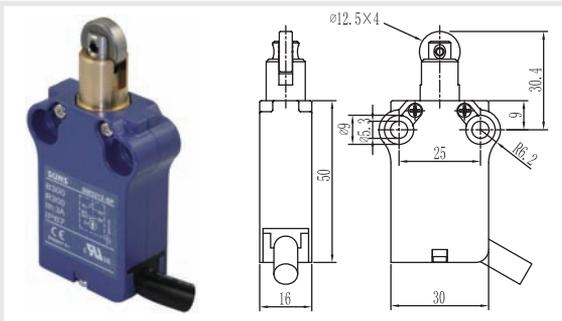
<p>Order Code</p> <p>SM31P11-62 SP snap action 1NO+1NC</p> <p>SM31S11-62 SL slow action 1NO+1NC BBM</p>	<p>Order Code</p> <p>SM31P11-63 SP snap action 1NO+1NC</p> <p>SM31S11-63 SL slow action 1NO+1NC BBM</p>
<p>Order Code</p> <p>SM31P11-72 SP snap action 1NO+1NC</p> <p>SM31S11-72 SL slow action 1NO+1NC BBM</p>	<p>Order Code</p> <p>SM31P11-73 SP snap action 1NO+1NC</p> <p>SM31S11-73 SL slow action 1NO+1NC BBM</p>
<p>Order Code</p> <p>SM31P11-11 G SP snap action 1NO+1NC</p> <p>SM31S11-11 G SL slow action 1NO+1NC BBM</p>	

Compact Safety Limit Switches (Modular Design, IP67, 25mm)

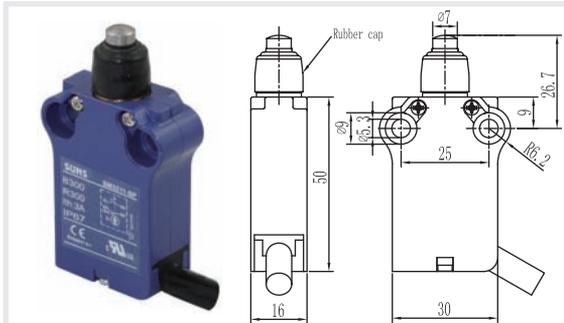
SM32 SERIES (25mm)



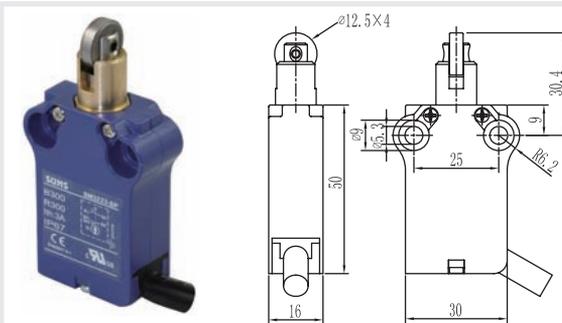
Order Code	Contact block			
SM32P11-01	SP	↻	snap action	INO+INC
SM32S11-01	SL	↻	slow action	INO+INC BBM



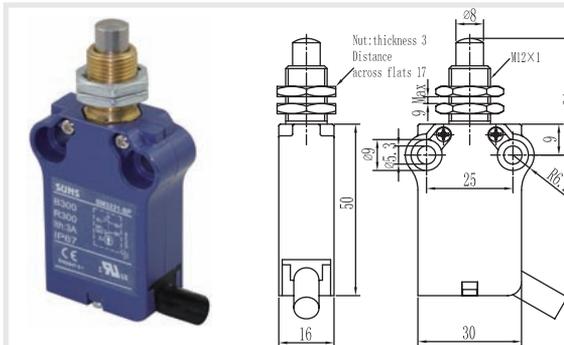
Order Code	Contact block			
SM32P11-12	SP	↻	snap action	INO+INC
SM32S11-12	SL	↻	slow action	INO+INC BBM



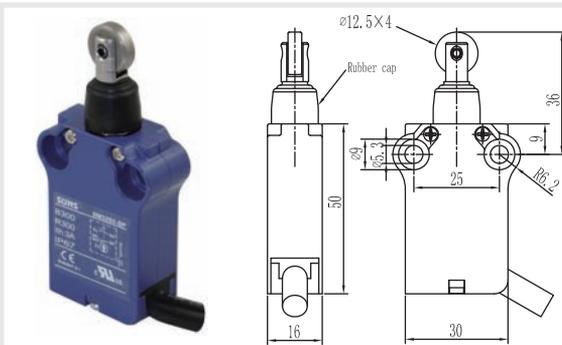
Order Code	Contact block			
SM32P11-11	SP	↻	snap action	INO+INC
SM32S11-11	SL	↻	slow action	INO+INC BBM



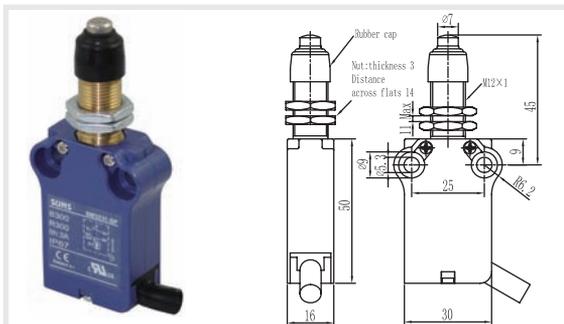
Order Code	Contact block			
SM32P11-22	SP	↻	snap action	INO+INC
SM32S11-22	SL	↻	slow action	INO+INC BBM



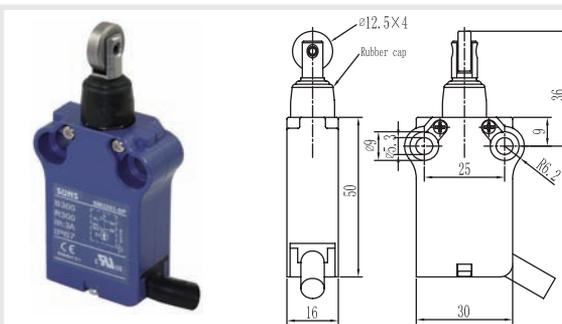
Order Code	Contact block			
SM32P11-21	SP	↻	snap action	INO+INC
SM32S11-21	SL	↻	slow action	INO+INC BBM



Order Code	Contact block			
SM32P11-02	SP	↻	snap action	INO+INC
SM32S11-02	SL	↻	slow action	INO+INC BBM

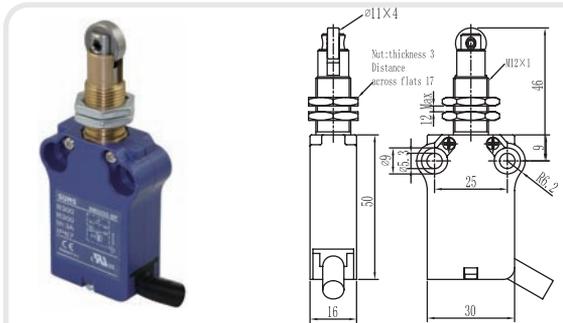


Order Code	Contact block			
SM32P11-31	SP	↻	snap action	INO+INC
SM32S11-31	SL	↻	slow action	INO+INC BBM

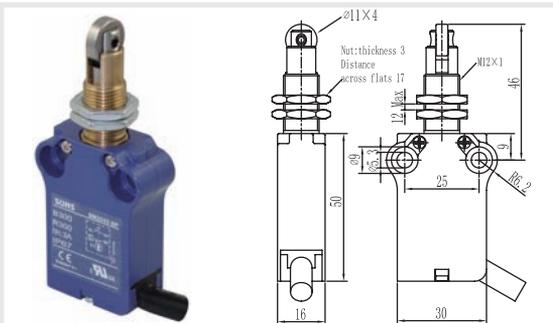


Order Code	Contact block			
SM32P11-03	SP	↻	snap action	INO+INC
SM32S11-03	SL	↻	slow action	INO+INC BBM

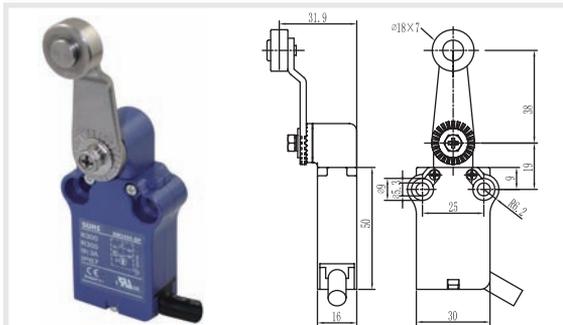
Compact Safety Limit Switches (Modular Design, IP67, 25mm) SM32 SERIES (25mm)



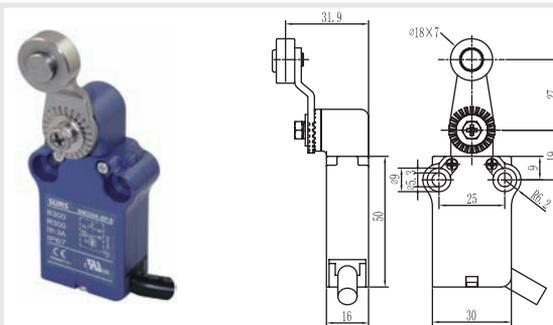
Order Code	Contact block		
SM32P11-32	SP	↻ snap action	1NO+1NC
SM32S11-32	SL	↻ slow action	1NO+1NC BBM



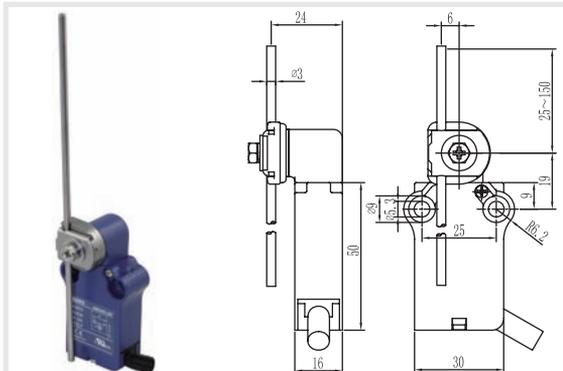
Order Code	Contact block		
SM32P11-42	SP	↻ snap action	1NO+1NC
SM32S11-42	SL	↻ slow action	1NO+1NC BBM



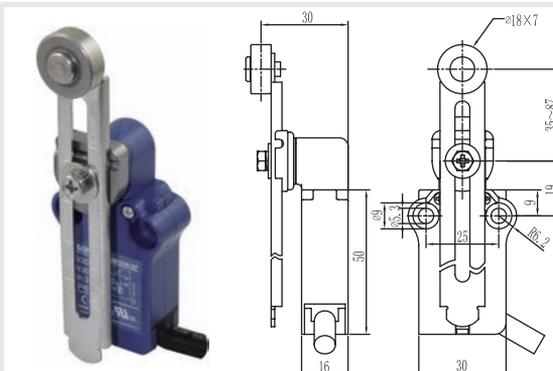
Order Code	Contact block		
SM32P11-04	SP	↻ snap action	1NO+1NC
SM32S11-04	SL	↻ slow action	1NO+1NC BBM



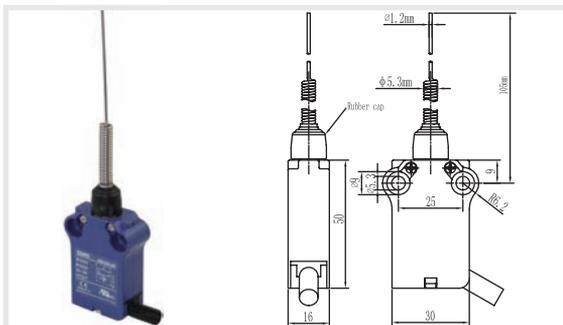
Order Code	Contact block		
SM32P11-04S	SP	↻ snap action	1NO+1NC
SM32S11-04S	SL	↻ slow action	1NO+1NC BBM



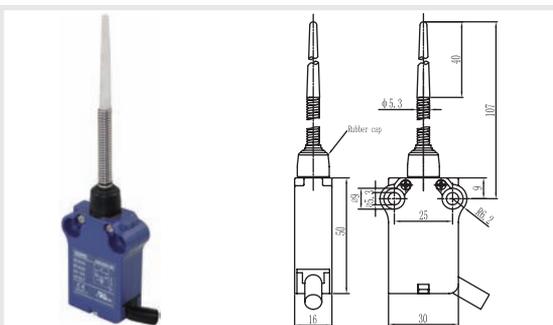
Order Code	Contact block		
SM32P11-07	SP	↻ snap action	1NO+1NC
SM32S11-07	SL	↻ slow action	1NO+1NC BBM



Order Code	Contact block		
SM32P11-08	SP	↻ snap action	1NO+1NC
SM32S11-08	SL	↻ slow action	1NO+1NC BBM



Order Code	Contact block		
SM32P11-69	SP	↻ snap action	1NO+1NC
SM32S11-69	SL	↻ slow action	1NO+1NC BBM



Order Code	Contact block		
SM32P11-66	SP	↻ snap action	1NO+1NC
SM32S11-66	SL	↻ slow action	1NO+1NC BBM

Compact Safety Limit Switches (Modular Design, IP67, 25mm) SM32 SERIES (25mm)

<p>Order Code Contact block</p> <p>SM32P11-62 SP snap action 1NO+1NC</p> <p>SM32S11-62 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32P11-63 SP snap action 1NO+1NC</p> <p>SM32S11-63 SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32P11-72 SP snap action 1NO+1NC</p> <p>SM32S11-72 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32P11-73 SP snap action 1NO+1NC</p> <p>SM32S11-73 SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32P11-11 G SP snap action 1NO+1NC</p> <p>SM32S11-11 G SL slow action 1NO+1NC BBM</p>	

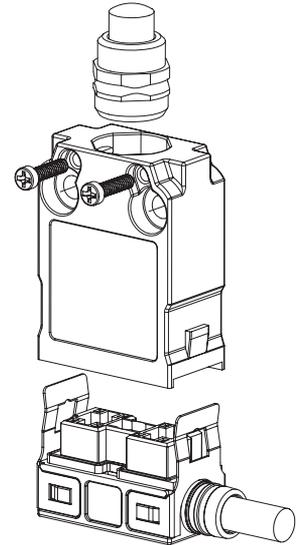
Compact Safety Limit Switches (Modular Design, Plastic Body, IP67) SM31N SERIES (20mm) and SM32N SERIES (25mm)

Selection Guide:

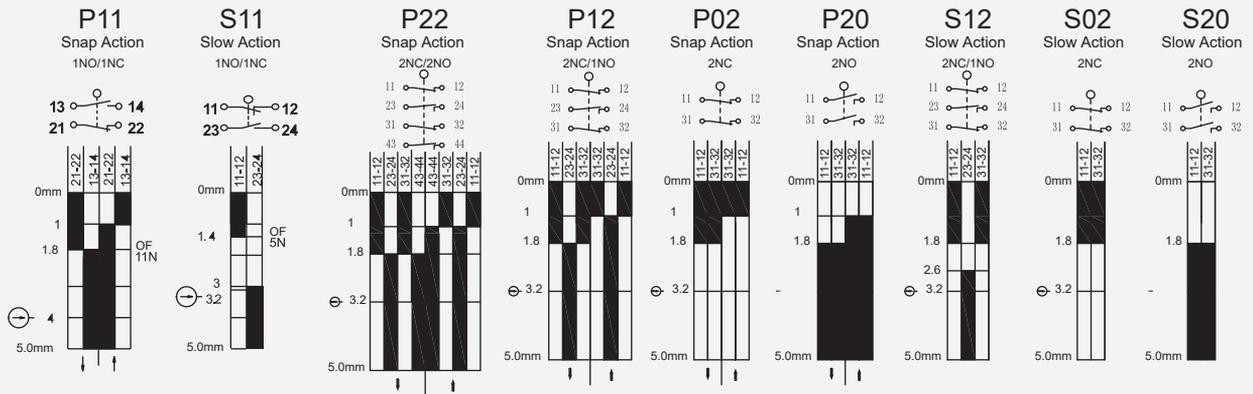
SM3	1	N - P	11	-	12	H	-	A	2
Housing					Head Style				
20mm mounting	1	P Snap Action	11 1NO/1NC		Blank			A Cable side exit	2 2 meters cable
25mm mounting	2	S Slow Action	12 1NO/2NC		H Horizontal head			B Cable bottom exit	
			20 2NO					Q1 M12 connector side exit 4 pin	
			21 2NO/1NC					Q2DP DP connector bottom exit 4 pin	
			22 2NO/2NC					Q3 M12 connector bottom exit 5 pin	
			02 2NC						

Specification

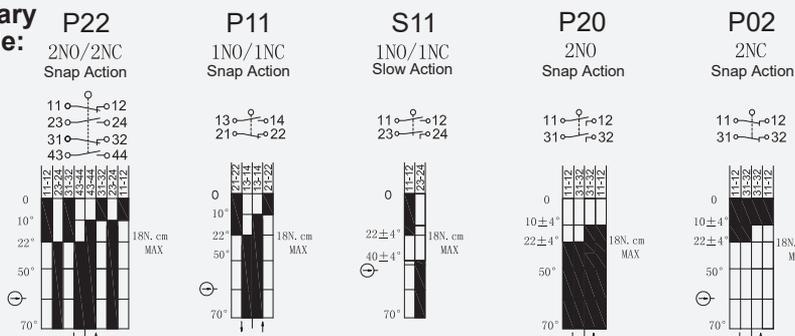
Operating Speed	0.05mm-2m/sec
Operating Frequency	Mechanical: 120ops/min Electrical: 30 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial value)
Rated Voltage	300V AC (EN60947-5-1)
Rated Thermal Current	5A
Electrical Rating	AC15 B300 DC13 R300
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x 10 ⁷ (operations) Electrically 2 x 10 ⁹ (operations)
Operating Temperature	-25~+85°C without formation of ice
Humidity	< 95%
Cable	4 core, 0.5mm ² ; 6 core, 0.5mm ² ; 8 core, 0.34mm ²
Degree of Protection	IP67



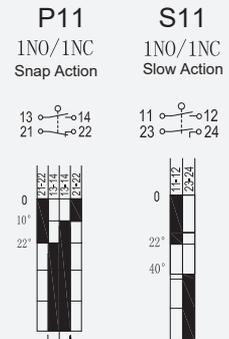
Plunger Style:



Rotary Style:



Spring Coil Style:

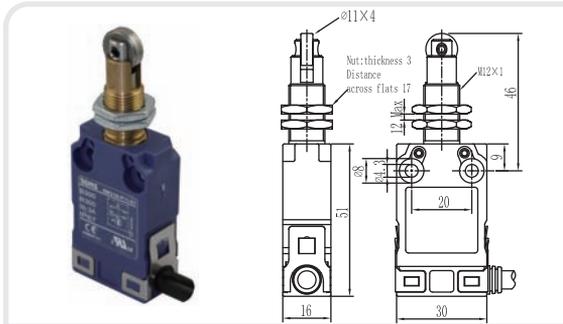


Compact Safety Limit Switches (Fiber Reinforced Plastic, IP67, 20mm) SM31N SERIES (20mm)

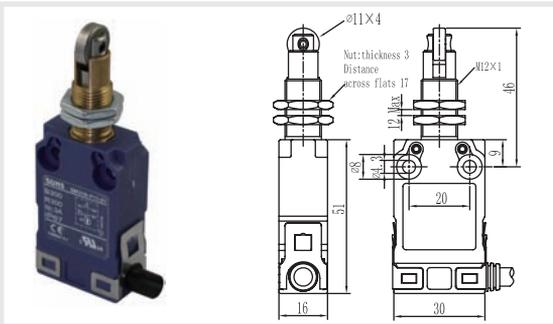
<p>Order Code Contact block</p> <p>SM31NP11-01 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-01 SL ⊖ slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31NP11-12 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-12 SL ⊖ slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM31NP11-11 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-11 SL ⊖ slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31NP11-22 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-22 SL ⊖ slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM31NP11-21 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-21 SL ⊖ slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31NP11-02 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-02 SL ⊖ slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM31NP11-31 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-31 SL ⊖ slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM31NP11-03 SP ⊖ snap action 1NO+1NC</p> <p>SM31NS11-03 SL ⊖ slow action 1NO+1NC BBM</p>

* suffix: -A for side exit, -B for Bottom exit and one-digit number for length of the wire (meter). Eg :-A2

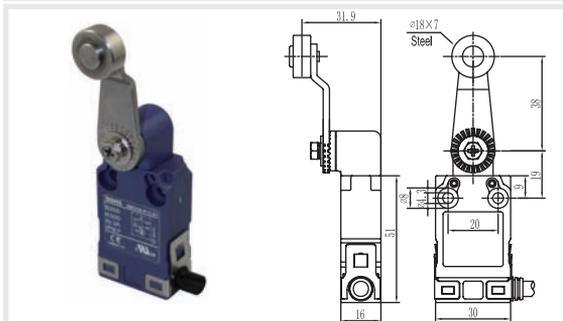
Compact Safety Limit Switches (Fiber Reinforced Plastic, IP67, 20mm) SM31N SERIES (20mm)



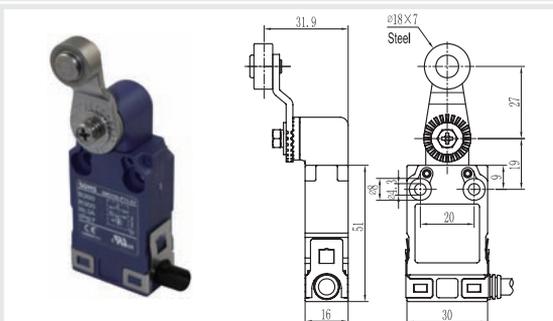
Order Code	Contact block			
SM31NP11-32	SP	↻	snap action	1NO+1NC
SM31NS11-32	SL	↻	slow action	1NO+1NC BBM



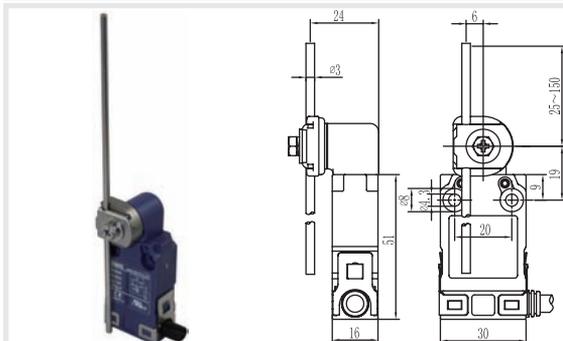
Order Code	Contact block			
SM31NP11-42	SP	↻	snap action	1NO+1NC
SM31NS11-42	SL	↻	slow action	1NO+1NC BBM



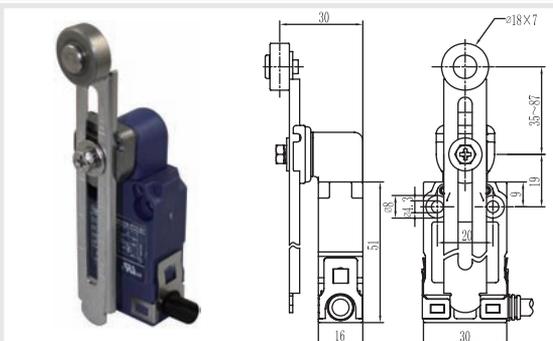
Order Code	Contact block			
SM31NP11-04	SP	↻	snap action	1NO+1NC
SM31NS11-04	SL	↻	slow action	1NO+1NC BBM



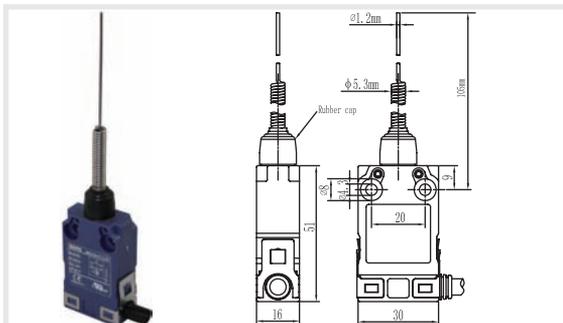
Order Code	Contact block			
SM31NP11-04-S	SP	↻	snap action	1NO+1NC
SM31NS11-04-S	SL	↻	slow action	1NO+1NC BBM



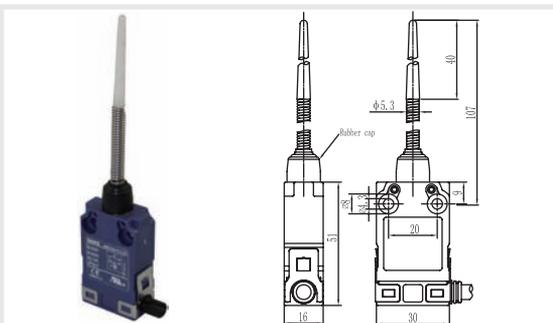
Order Code	Contact block			
SM31NP11-07	SP	↻	snap action	1NO+1NC
SM31NS11-07	SL	↻	slow action	1NO+1NC BBM



Order Code	Contact block			
SM31NP11-08	SP	↻	snap action	1NO+1NC
SM31NS11-08	SL	↻	slow action	1NO+1NC BBM



Order Code	Contact block			
SM31NP11-69	SP		snap action	1NO+1NC
SM31NS11-69	SL		slow action	1NO+1NC BBM



Order Code	Contact block			
SM31NP11-66	SP		snap action	1NO+1NC
SM31NS11-66	SL		slow action	1NO+1NC BBM

* suffix: -A for side exit, -B for Bottom exit and one-digit number for length of the wire (meter). Eg :-A2

Compact Safety Limit Switches (Fiber Reinforced Plastic, IP67, 25mm) SM32N SERIES (25mm)

<p>Order Code Contact block</p> <p>SM32NP11-01 SP snap action 1NO+1NC</p> <p>SM32NS11-01 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-12 SP snap action 1NO+1NC</p> <p>SM32NS11-12 SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32NP11-11 SP snap action 1NO+1NC</p> <p>SM32NS11-11 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-22 SP snap action 1NO+1NC</p> <p>SM32NS11-22 SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32NP11-21 SP snap action 1NO+1NC</p> <p>SM32NS11-21 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-02 SP snap action 1NO+1NC</p> <p>SM32NS11-02 SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32NP11-31 SP snap action 1NO+1NC</p> <p>SM32NS11-31 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-03 SP snap action 1NO+1NC</p> <p>SM32NS11-03 SL slow action 1NO+1NC BBM</p>

* suffix:-A for side exit,-B for Bottom exit and one-digit number for length of the wire (meter).Eg :-B2

Compact Safety Limit Switches (Fiber Reinforced Plastic, IP67, 25mm) SM32N SERIES (25mm)

<p>Order Code Contact block</p> <p>SM32NP11-32 SP snap action 1NO+1NC</p> <p>SM32NS11-32 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-42 SP snap action 1NO+1NC</p> <p>SM32NS11-42 SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32NP11-04 SP snap action 1NO+1NC</p> <p>SM32NS11-04 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-04S SP snap action 1NO+1NC</p> <p>SM32NS11-04S SL slow action 1NO+1NC BBM</p>
<p>Order Code Contact block</p> <p>SM32NP11-07 SP snap action 1NO+1NC</p> <p>SM32NS11-07 SL slow action 1NO+1NC BBM</p>	<p>Order Code Contact block</p> <p>SM32NP11-08 SP snap action 1NO+1NC</p> <p>SM32NS11-08 SL slow action 1NO+1NC BBM</p>
<p>Order Code</p> <p>SM32NP11-69 SP snap action 1NO+1NC</p> <p>SM32NS11-69 SL slow action 1NO+1NC BBM</p>	<p>Order Code</p> <p>SM32NP11-66 SP snap action 1NO+1NC</p> <p>SM32NS11-66 SL slow action 1NO+1NC BBM</p>

* suffix:-A for side exit,-B for Bottom exit and one-digit number for length of the wire (meter). Eg :-B2

Compact Safety Limit Switches (Fiber Reinforced Plastic, IP67, 25mm) SM32N SERIES (25mm)

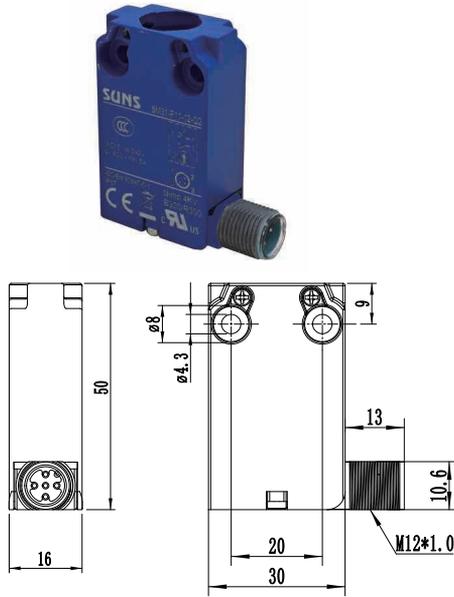
<p>Order Code</p> <p>SM32NP11-62 SP</p> <p>SM32NS11-62 SL</p>	<p>Order Code</p> <p>SM32NP11-63 SP</p> <p>SM32NS11-63 SL</p>
<p>Contact block</p> <p>→ snap action 1NO+1NC</p> <p>→ slow action 1NO+1NC BBM</p>	<p>Contact block</p> <p>→ snap action 1NO+1NC</p> <p>→ slow action 1NO+1NC BBM</p>
<p>Order Code</p> <p>SM32NP11-72 SP</p> <p>SM32NS11-72 SL</p>	<p>Order Code</p> <p>SM32NP11-73 SP</p> <p>SM32NS11-73 SL</p>
<p>Contact block</p> <p>→ snap action 1NO+1NC</p> <p>→ slow action 1NO+1NC BBM</p>	<p>Contact block</p> <p>→ snap action 1NO+1NC</p> <p>→ slow action 1NO+1NC BBM</p>
	<p>Also available in side cable exit</p>
<p>Order Code</p> <p>SM32NP11-11 G SP</p> <p>SM32NS11-11 G SL</p>	<p>Order Code</p> <p>SP</p> <p>SL</p>
<p>Contact block</p> <p>→ snap action 1NO+1NC</p> <p>→ slow action 1NO+1NC BBM</p>	<p>Contact block</p> <p>→ snap action 1NO+1NC</p> <p>→ slow action 1NO+1NC BBM</p>

* suffix:-A for side exit,-B for Bottom exit and one-digit number for length of the wire (meter).Eg :-B2

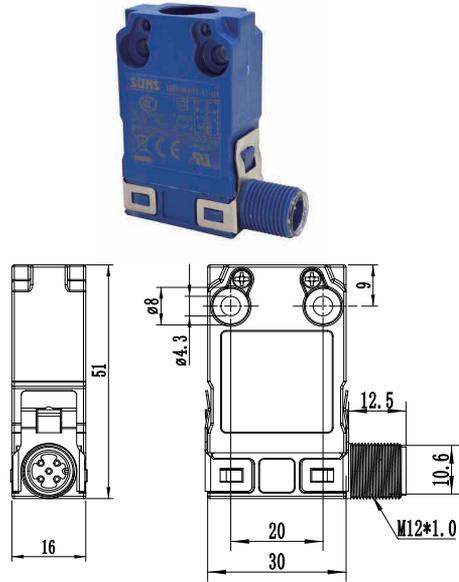
COMPACT LIMIT SWITCHES (Metal Body, IP67 Water-Proof) SM31 SERIES (20mm) and SM32 SERIES (25mm) SM31N SERIES (20mm) and SM32N SERIES (25mm)

Basic Body dimension:

Suffix: -Q1 (cable side exit) For SM31 and SM32



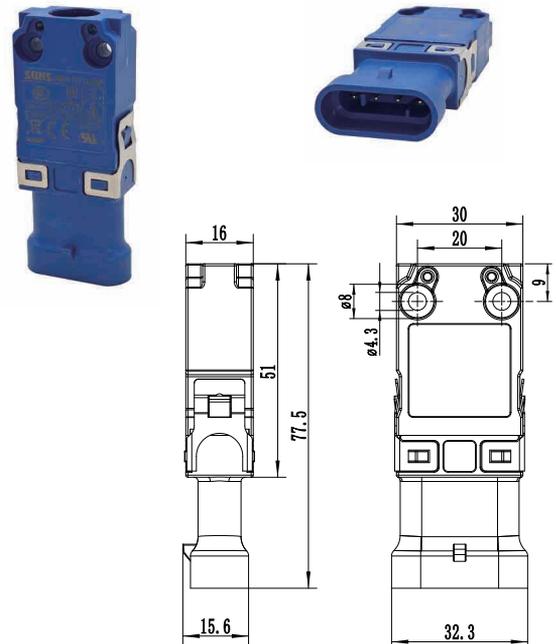
Suffix: -Q1 (cable side exit) For SM31N and SM32N



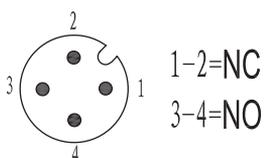
Suffix: -Q2DT (cable side exit) For SM31



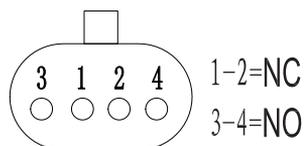
Suffix: -Q2DP (cable bottom exit) For SM31N



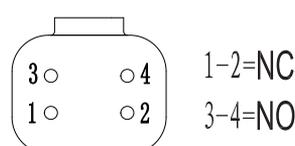
Q1: 4 pin M12



Q2DP: 4 pin



Q2DT: 4 pin



Q3: 5 pin M12

