

GLOBAL STYLE SAFETY LIMIT SWITCHES (MINI PLASTIC BODIED) SMN SERIES (SINGLE CONDUIT ENTRY)

SUNS products are safe and reliable products which are widely used in various mechanical devices.



Features

- Glass fiber reinforced plastic body
- Easily interchangeable contact block
- Galvanically separated contacts
- Screw terminals with self-lifting clamps for easy wiring
- Positive Opening of NC contacts
- Suitable for front mounting
- Cable entry: Rectangle 8.5 x 3.5 mm

Definitions of Operating Characteristics

- OF Operating Force
- RF Releasing Force
- OT Overtravel
- TT Total Travel
- PT Pretravel
- MD Movement Differential
- OP Operating Position
- PO Travel to Positive Opening



Specifications

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 Thermal Current	10A/600V AC (EN60947-5-1) AC15 A600 / DC13 Q300
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1.0 x10 ⁷ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-25~+80°C (-13~176°F) with no icing
Humidity	< 95%RH
Weight	35-80g
Degree of Protection	IP30

Selection Guide:

SMN
Body
Styles

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SP

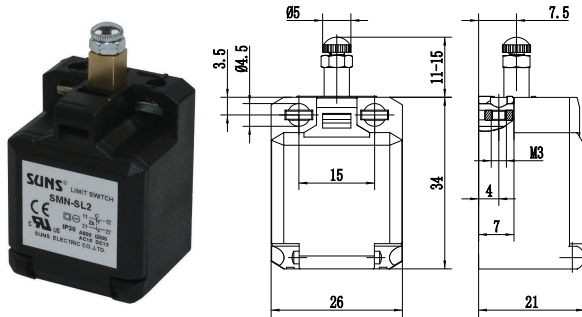
- SP: 1NO/1NC Snap action
- SL: BBM 1NO/1NC Slow Action changeover
- SL2: 2NC Slow Action
- SL3: 2NO Slow Action

(11A)

Head Styles

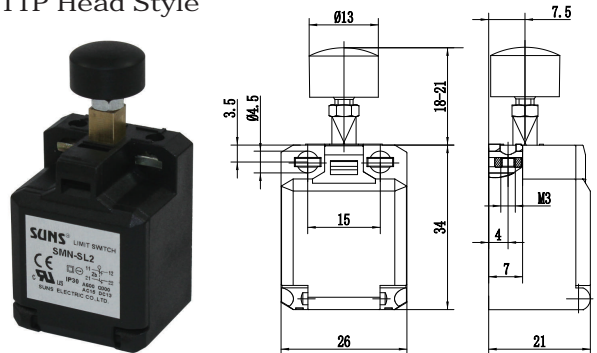
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11A Head Style



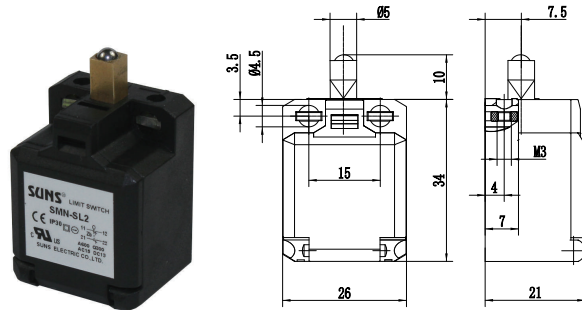
Order Code	Contact block	SP	SL	SL2	SL3	SNAP ACTION	1NO+1NC	1NO+1NC BBM	2NC	2NO
SMN-SP(11A)	SP	⊕				SNAP ACTION	1NO+1NC			
SMN-SL(11A)	SL	⊕				SLOW ACTION	1NO+1NC	BBM		
SMN-SL2(11A)	SL2		⊕			SLOW ACTION			2NC	
SMN-SL3(11A)	SL3			⊕		SLOW ACTION				2NO

11P Head Style



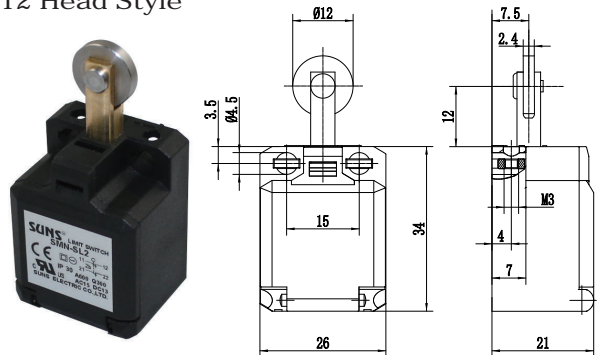
Order Code	Contact block	SP	SL	SL2	SL3	SNAP ACTION	1NO+1NC	1NO+1NC BBM	2NC	2NO
SMN-SP(11P)	SP	⊕				SNAP ACTION	1NO+1NC			
SMN-SL(11P)	SL	⊕				SLOW ACTION	1NO+1NC	BBM		
SMN-SL2(11P)	SL2		⊕			SLOW ACTION			2NC	
SMN-SL3(11P)	SL3			⊕		SLOW ACTION				2NO

11B Head Style



Order Code	Contact block	SP	SL	SL2	SL3	SNAP ACTION	1NO+1NC	1NO+1NC BBM	2NC	2NO
SMN-SP(11B)	SP	⊕				SNAP ACTION	1NO+1NC			
SMN-SL(11B)	SL	⊕				SLOW ACTION	1NO+1NC	BBM		
SMN-SL2(11B)	SL2		⊕			SLOW ACTION			2NC	
SMN-SL3(11B)	SL3			⊕		SLOW ACTION				2NO

12 Head Style



Order Code	Contact block	SP	SL	SL2	SL3	SNAP ACTION	1NO+1NC	1NO+1NC BBM	2NC	2NO
SMN-SP(12)	SP	⊕				SNAP ACTION	1NO+1NC			
SMN-SL(12)	SL	⊕				SLOW ACTION	1NO+1NC	BBM		
SMN-SL2(12)	SL2		⊕			SLOW ACTION			2NC	
SMN-SL3(12)	SL3			⊕		SLOW ACTION				2NO

Travel diagrams

