

## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY)

*SUNS products as safe and reliable products are being 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
- 4 x 90° actuator positions
- Cable entry available: M20, PG13.5 and 1/2"NPT
- Conform to EN 50047 standard

### 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 <sup>7</sup> (operations) Electrically 5 x10 <sup>5</sup> (operations)
Operating Temperature	-25~+80°C (-13~176°F) with no icing
Humidity	< 95%RH
Weight	50-100g
Degree of Protection	IP67

### Selection Guide:

<b>SND41</b>	<b>04</b>	<b>SP</b>	<b>C</b>	-	<b>R</b>
Body Styles	Head Styles	<ul style="list-style-type: none"> <li>— SP: 1NO/1NC Snap action</li> <li>— SPT: 2NO/2NC Snap action</li> <li>— SL: BBM 1NO/1NC Slow Action changeover</li> <li>— SL1: MBB 1NO/1NC Slow Action Overlapping</li> <li>— SL2: 2NC Slow Action</li> <li>— SL3: 2NO Slow Action</li> <li>— SL4: 3NC Slow Action</li> <li>— SL5: 3NO Slow Action</li> <li>— SL6: BBM 2NC/1NO Slow Action changeover</li> <li>— SL7: MBB 2NC/1NO Slow Action Overlapping</li> <li>— SL8: BBM 2NO/1NC Slow Action changeover</li> <li>— SL9: MBB 2NO/1NC Slow Action Overlapping</li> </ul>	Conduits		
			<ul style="list-style-type: none"> <li>— A: 1/2"NPT</li> <li>— B: PG13.5</li> <li>— C: M20</li> <li>— D: M16</li> <li>— B1: PG11</li> </ul>		<ul style="list-style-type: none"> <li>— Blank</li> <li>— R: with Reset</li> </ul>

## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY)

Available contact blocks and travel diagrams



Plunger type  
11, 12, 31, 32 styles

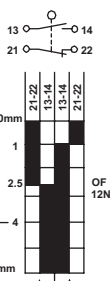
Side rotary type  
04, 07, 08, 14, 18 Styles

62, 63 styles

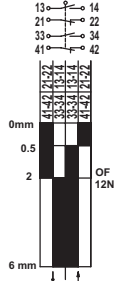
72, 73 styles

00, 66, 69 styles

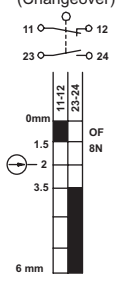
**SP**  
1NO/1NC  
Snap Action



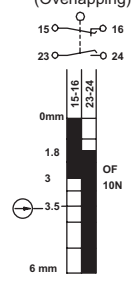
**SPT**  
2NO/2NC  
Snap Action



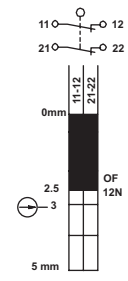
**SL**  
1NO/1NC  
Slow Action  
(Changeover)



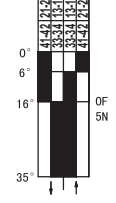
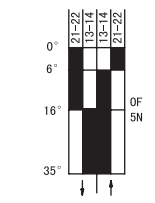
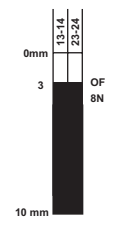
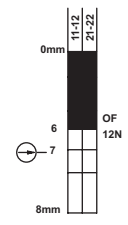
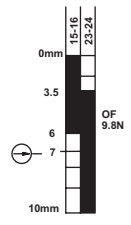
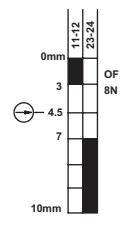
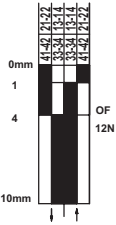
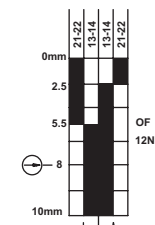
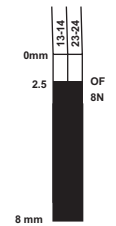
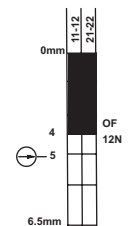
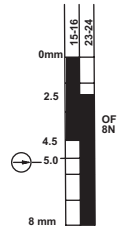
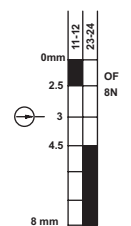
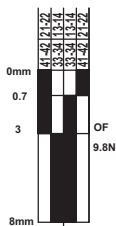
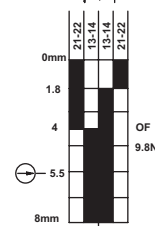
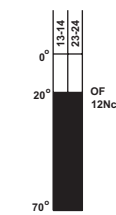
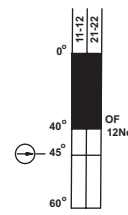
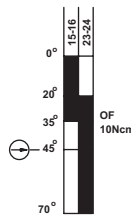
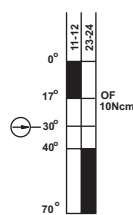
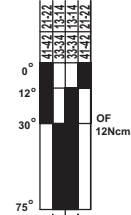
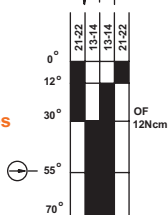
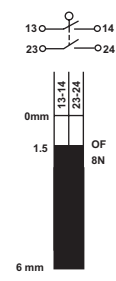
**SL1**  
1NO/1NC  
Slow Action  
(Overlapping)



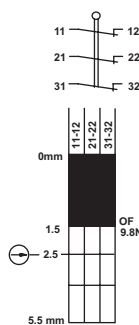
**SL2**  
2NC  
Slow Action



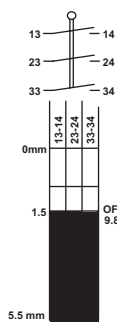
**SL3**  
2NO  
Slow Action



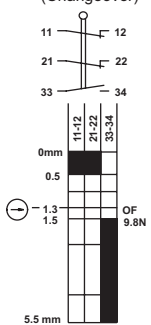
**SL4**  
3NC  
Slow Action



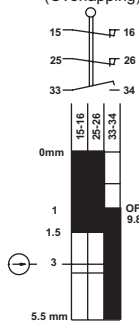
**SL5**  
3NO  
Slow Action



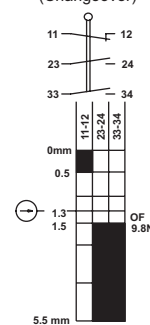
**SL6**  
2NC/1NO  
Slow Action  
(Changeover)



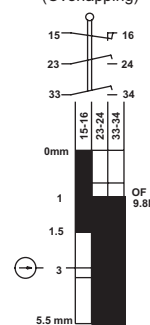
**SL7**  
2NC/1NO  
Slow Action  
(Overlapping)



**SL8**  
1NC/2NO  
Slow Action  
(Changeover)

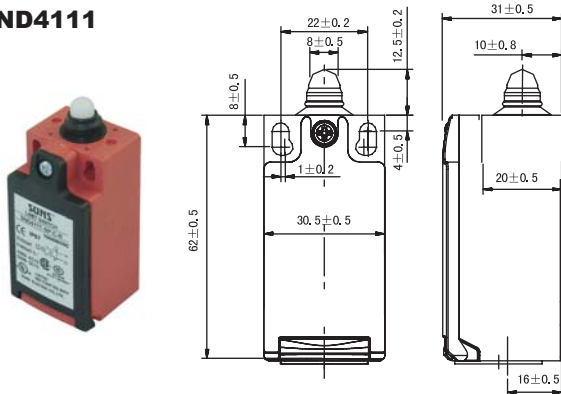


**SL9**  
1NC/2NO  
Slow Action  
(Overlapping)



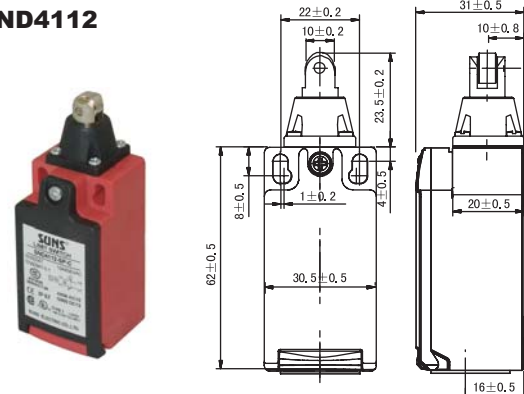
## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY)

### SND4111



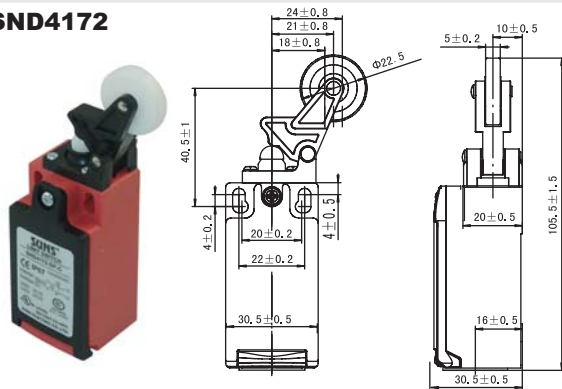
Order Code	Contact block			
SND4111-SP- _	SP	→	snap action	1NO+1NC
SND4111-SL- _	SL	→	slow action	1NO+1NC BBM
SND4111-SL1- _	SL1	→	slow action	1NO+1NC MBB
SND4111-SL2- _	SL2	→	slow action	2NC

### SND4112



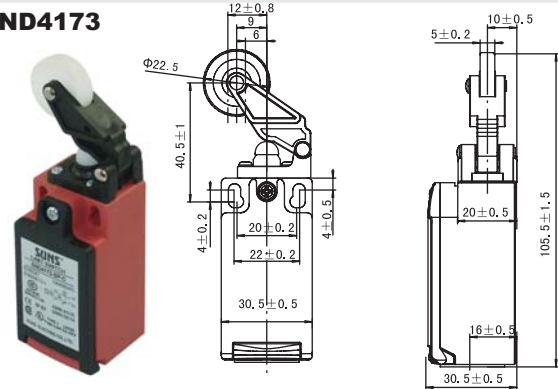
Order Code	Contact block			
SND4112-SP- _	SP	→	snap action	1NO+1NC
SND4112-SL- _	SL	→	slow action	1NO+1NC BBM
SND4112-SL1- _	SL1	→	slow action	1NO+1NC MBB
SND4112-SL2- _	SL2	→	slow action	2NC

### SND4172



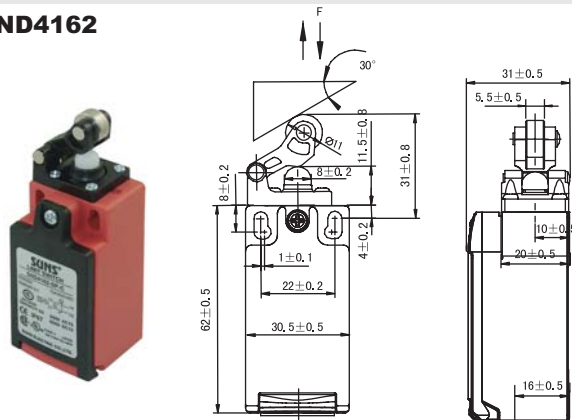
Order Code	Contact block			
SND4172-SP- _	SP	→	snap action	1NO+1NC
SND4172-SL- _	SL	→	slow action	1NO+1NC BBM
SND4172-SL1- _	SL1	→	slow action	1NO+1NC MBB
SND4172-SL2- _	SL2	→	slow action	2NC

### SND4173



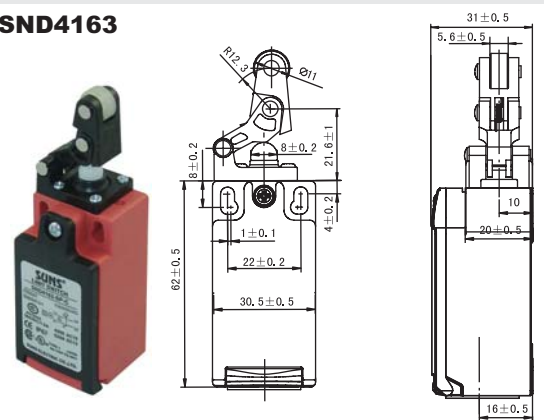
Order Code	Contact block			
SND4173-SP- _	SP	→	snap action	1NO+1NC
SND4173-SL- _	SL	→	slow action	1NO+1NC BBM
SND4173-SL1- _	SL1	→	slow action	1NO+1NC MBB
SND4173-SL2- _	SL2	→	slow action	2NC

### SND4162



Order Code	Contact block			
SND4162-SP- _	SP	→	snap action	1NO+1NC
SND4162-SL- _	SL	→	slow action	1NO+1NC BBM
SND4162-SL1- _	SL1	→	slow action	1NO+1NC MBB
SND4162-SL2- _	SL2	→	slow action	2NC

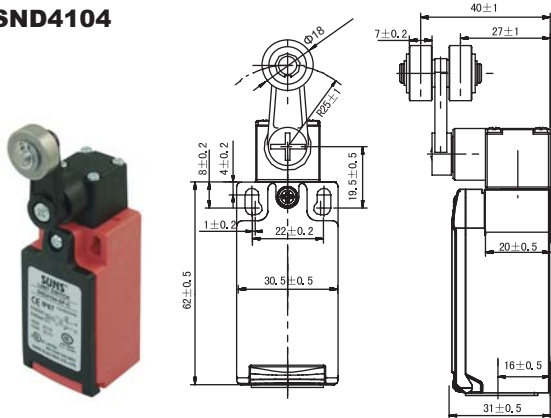
### SND4163



Order Code	Contact block			
SND4163-SP- _	SP	→	snap action	1NO+1NC
SND4163-SL- _	SL	→	slow action	1NO+1NC BBM
SND4163-SL1- _	SL1	→	slow action	1NO+1NC MBB
SND4163-SL2- _	SL2	→	slow action	2NC

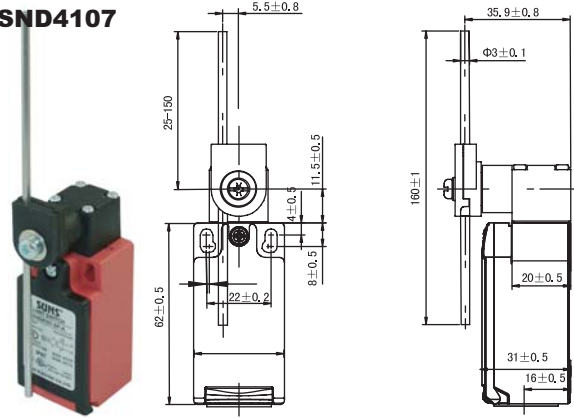
## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY)

### SND4104



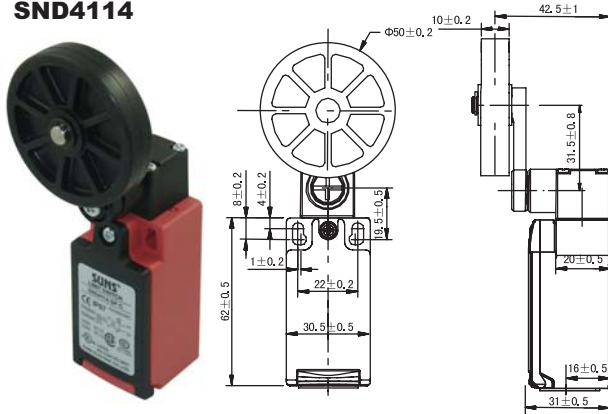
Order Code	Contact block		
SND4104-SP- _	SP	➔	snap action 1NO+1NC
SND4104-SL- _	SL	➔	slow action 1NO+1NC BBM
SND4104-SL1- _	SL1	➔	slow action 1NO+1NC MBB
SND4104-SL2- _	SL2	➔	slow action 2NC

### SND4107



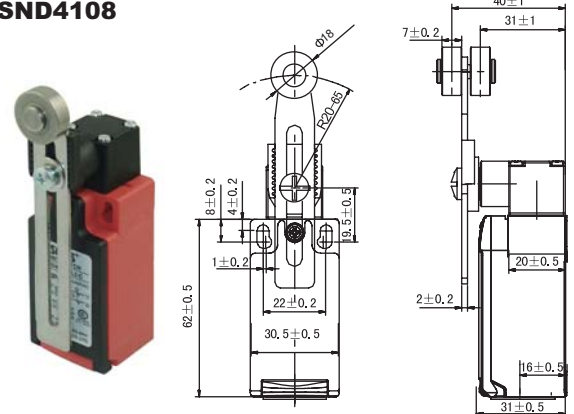
Order Code	Contact block		
SND4107-SP- _	SP	➔	snap action 1NO+1NC
SND4107-SL- _	SL	➔	slow action 1NO+1NC BBM
SND4107-SL1- _	SL1	➔	slow action 1NO+1NC MBB
SND4107-SL2- _	SL2	➔	slow action 2NC

### SND4114



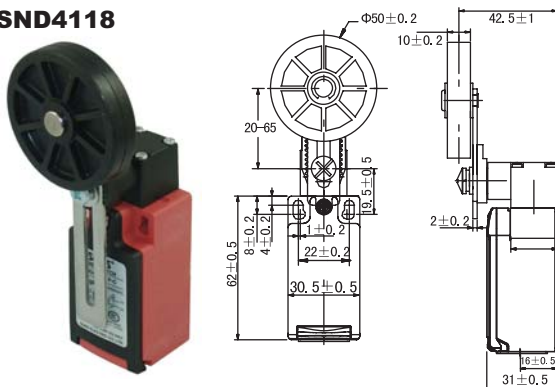
Order Code	Contact block		
SND4114-SP- _	SP	➔	snap action 1NO+1NC
SND4114-SL- _	SL	➔	slow action 1NO+1NC BBM
SND4114-SL1- _	SL1	➔	slow action 1NO+1NC MBB
SND4114-SL2- _	SL2	➔	slow action 2NC

### SND4108



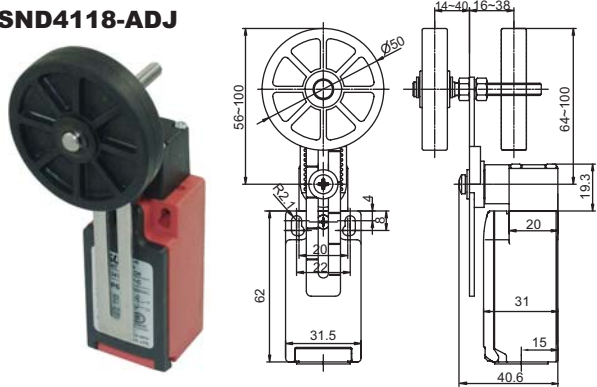
Order Code	Contact block		
SND4108-SP- _	SP	➔	snap action 1NO+1NC
SND4108-SL- _	SL	➔	slow action 1NO+1NC BBM
SND4108-SL1- _	SL1	➔	slow action 1NO+1NC MBB
SND4108-SL2- _	SL2	➔	slow action 2NC

### SND4118



Order Code	Contact block		
SND4118-SP- _	SP	➔	snap action 1NO+1NC
SND4118-SL- _	SL	➔	slow action 1NO+1NC BBM
SND4118-SL1- _	SL1	➔	slow action 1NO+1NC MBB
SND4118-SL2- _	SL2	➔	slow action 2NC

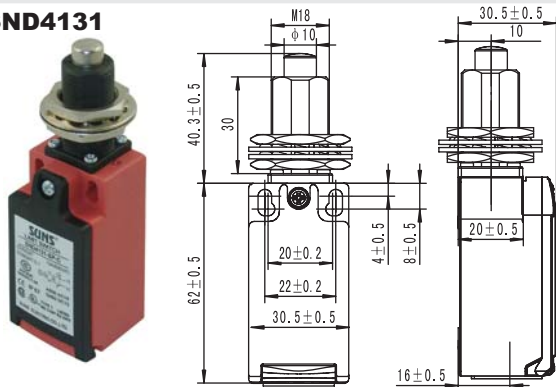
### SND4118-ADJ



Order Code	Contact block		
SND4118-SP- _ADJ	SP	➔	snap action 1NO+1NC
SND4118-SL- _ADJ	SL	➔	slow action 1NO+1NC BBM
SND4118-SL1- _ADJ	SL1	➔	slow action 1NO+1NC MBB
SND4118-SL2- _ADJ	SL2	➔	slow action 2NC

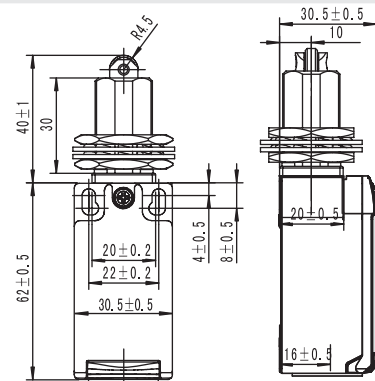
## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY)

### SND4131



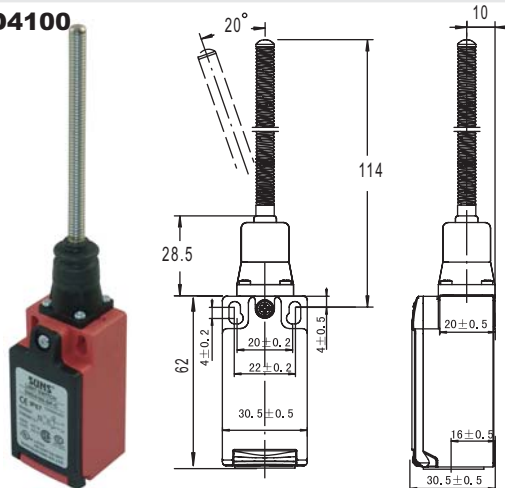
Order Code	Contact block		
SND4131-SP-__	SP	↻	snap action 1NO+1NC
SND4131-SL-__	SL	↻	slow action 1NO+1NC BBM
SND4131-SL1-__	SL1	↻	slow action 1NO+1NC MBB
SND4131-SL2-__	SL2	↻	slow action 2NC

### SND4132



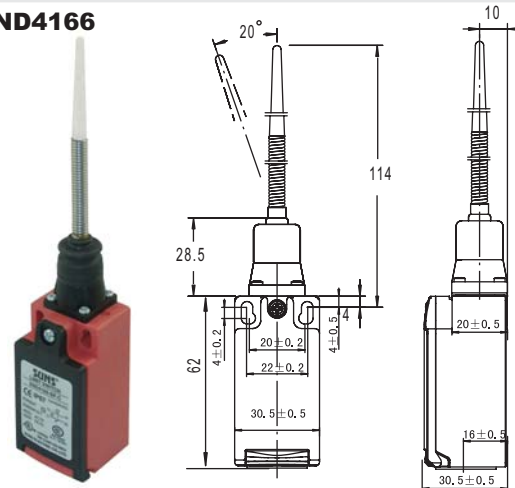
Order Code	Contact block		
SND4132-SP-__	SP	↻	snap action 1NO+1NC
SND4132-SL-__	SL	↻	slow action 1NO+1NC BBM
SND4132-SL1-__	SL1	↻	slow action 1NO+1NC MBB
SND4132-SL2-__	SL2	↻	slow action 2NC

### SND4100



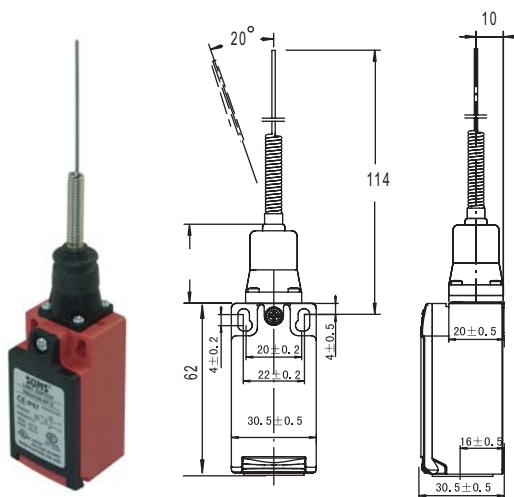
Order Code			
SND4100-SP-__	SP	↻	snap action 1NO+1NC

### SND4166



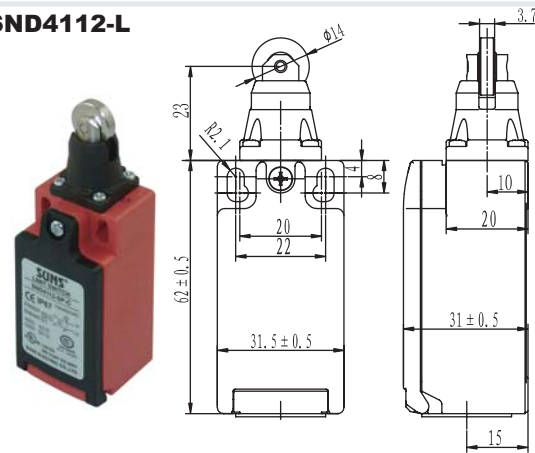
Order Code			
SND4166-SP-__	SP	↻	snap action 1NO+1NC

### SND4169



Order Code			
SND4169-SP-__	SP	↻	snap action 1NO+1NC

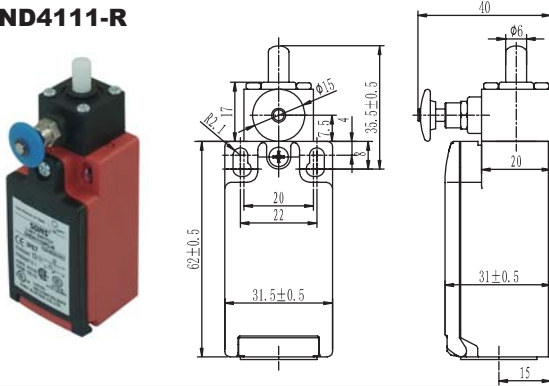
### SND4112-L



Order Code	Contact block		
SND4112-SP-__L	SP	↻	snap action 1NO+1NC
SND4112-SL-__L	SL	↻	slow action 1NO+1NC BBM
SND4112-SL1-__L	SL1	↻	slow action 1NO+1NC MBB
SND4112-SL2-__L	SL2	↻	slow action 2NC

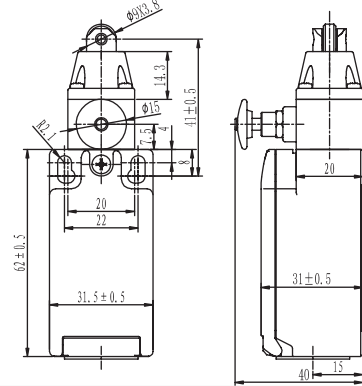
## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY WITH RESET)

### SND4111-R



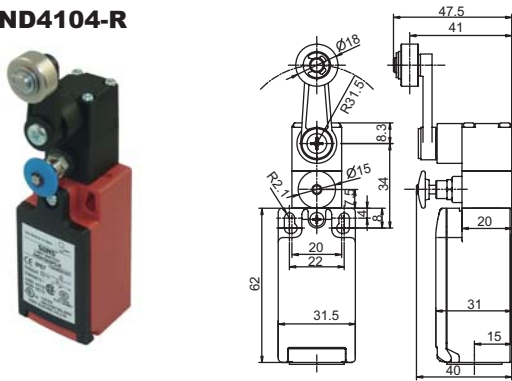
Order Code	Contact block			
SND4111-SP-_R	SP	↻	snap action	1NO+1NC
SND4111-SL-_R	SL	↻	slow action	1NO+1NC BBM
SND4111-SL1-_R	SL1	↻	slow action	1NO+1NC MBB
SND4111-SL2-_R	SL2	↻	slow action	2NC

### SND4112-R



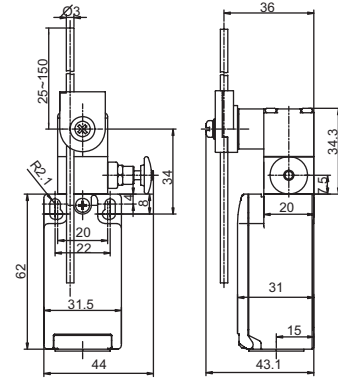
Order Code	Contact block			
SND4112-SP-_R	SP	↻	snap action	1NO+1NC
SND4112-SL-_R	SL	↻	slow action	1NO+1NC BBM
SND4112-SL1-_R	SL1	↻	slow action	1NO+1NC MBB
SND4112-SL2-_R	SL2	↻	slow action	2NC

### SND4104-R



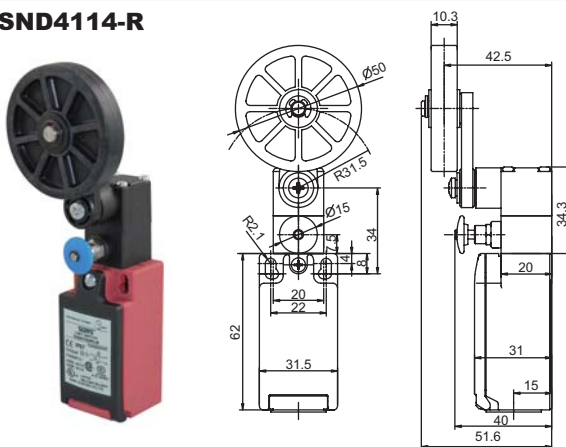
Order Code	Contact block			
SND4104-SP-_R	SP	↻	snap action	1NO+1NC
SND4104-SL-_R	SL	↻	slow action	1NO+1NC BBM
SND4104-SL1-_R	SL1	↻	slow action	1NO+1NC MBB
SND4104-SL2-_R	SL2	↻	slow action	2NC

### SND4107-R



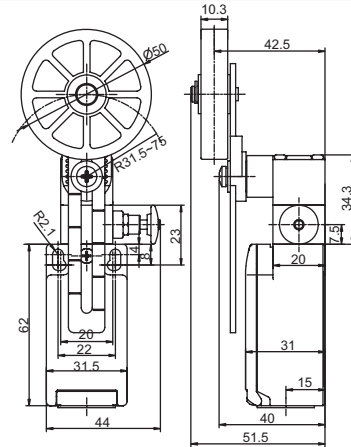
Order Code	Contact block			
SND4107-SP-_R	SP	↻	snap action	1NO+1NC
SND4107-SL-_R	SL	↻	slow action	1NO+1NC BBM
SND4107-SL1-_R	SL1	↻	slow action	1NO+1NC MBB
SND4107-SL2-_R	SL2	↻	slow action	2NC

### SND4114-R




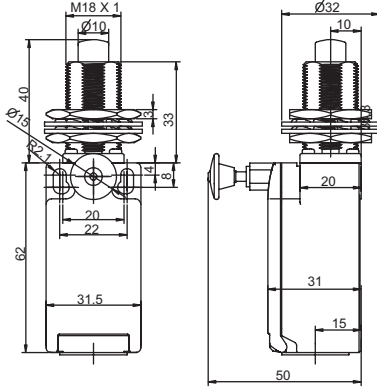

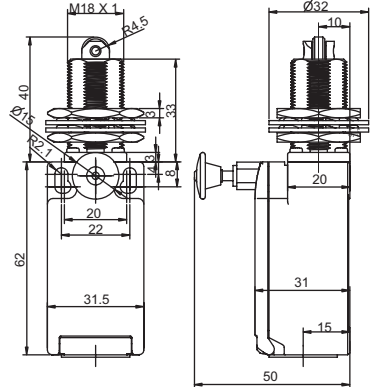









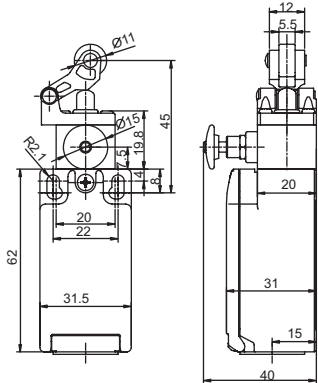

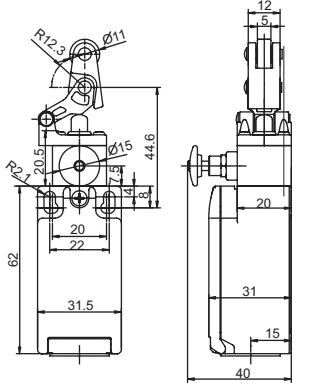









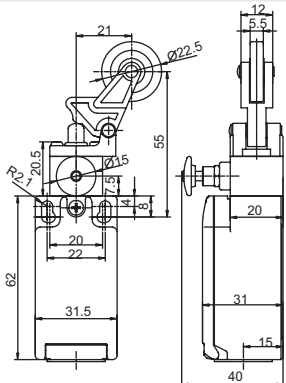

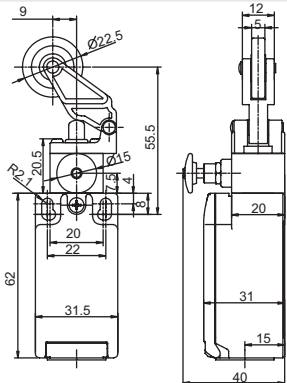








Order Code	Contact block			
SND4114-SP-_R	SP	↻	snap action	1NO+1NC
SND4114-SL-_R	SL	↻	slow action	1NO+1NC BBM
SND4114-SL1-_R	SL1	↻	slow action	1NO+1NC MBB
SND4114-SL2-_R	SL2	↻	slow action	2NC

### SND4118-R

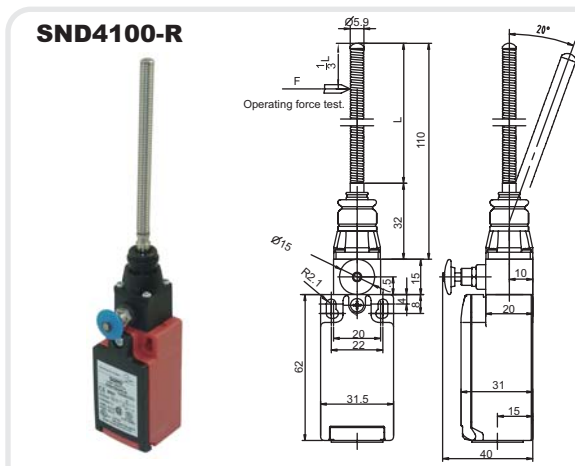


Order Code	Contact block			
SND4118-SP-_R	SP	↻	snap action	1NO+1NC
SND4118-SL-_R	SL	↻	slow action	1NO+1NC BBM
SND4118-SL1-_R	SL1	↻	slow action	1NO+1NC MBB
SND4118-SL2-_R	SL2	↻	slow action	2NC

## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY WITH RESET)

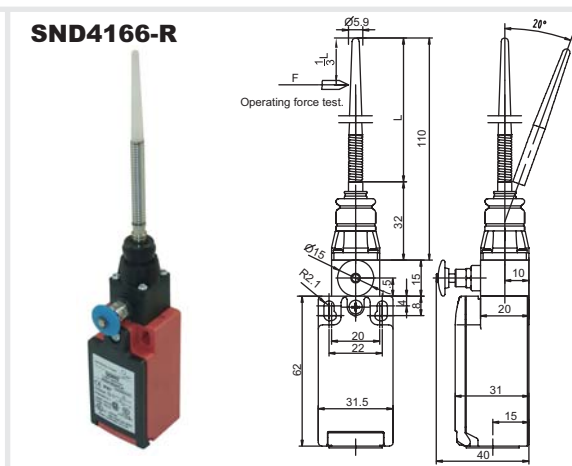
<b>SND4131-R</b>  		<b>SND4132-R</b>  	
Order Code	Contact block	Order Code	Contact block
SND4131-SP- _R	SP  snap action 1NO+1NC	SND4132-SP- _R	SP  snap action 1NO+1NC
SND4131-SL- _R	SL  slow action 1NO+1NC BBM	SND4132-SL- _R	SL  slow action 1NO+1NC BBM
SND4131-SL1- _R	SL1  slow action 1NO+1NC MBB	SND4132-SL1- _R	SL1  slow action 1NO+1NC MBB
SND4131-SL2- _R	SL2  slow action 2NC	SND4132-SL2- _R	SL2  slow action 2NC
<b>SND4162-R</b>  		<b>SND4163-R</b>  	
Order Code	Contact block	Order Code	Contact block
SND4162-SP- _R	SP  snap action 1NO+1NC	SND4163-SP- _R	SP  snap action 1NO+1NC
SND4162-SL- _R	SL  slow action 1NO+1NC BBM	SND4163-SL- _R	SL  slow action 1NO+1NC BBM
SND4162-SL1- _R	SL1  slow action 1NO+1NC MBB	SND4163-SL1- _R	SL1  slow action 1NO+1NC MBB
SND4162-SL2- _R	SL2  slow action 2NC	SND4163-SL2- _R	SL2  slow action 2NC
<b>SND4172-R</b>  		<b>SND4173-R</b>  	
Order Code	Contact block	Order Code	Contact block
SND4172-SP- _R	SP  snap action 1NO+1NC	SND4173-SP- _R	SP  snap action 1NO+1NC
SND4172-SL- _R	SL  slow action 1NO+1NC BBM	SND4173-SL- _R	SL  slow action 1NO+1NC BBM
SND4172-SL1- _R	SL1  slow action 1NO+1NC MBB	SND4173-SL1- _R	SL1  slow action 1NO+1NC MBB
SND4172-SL2- _R	SL2  slow action 2NC	SND4173-SL2- _R	SL2  slow action 2NC

## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY WITH RESET)



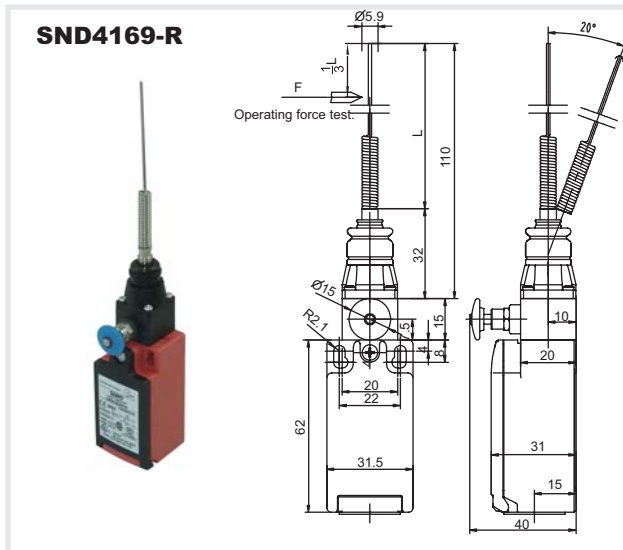
Order Code

SND4100-SP-\_-R SP snap action 1NO+1NC



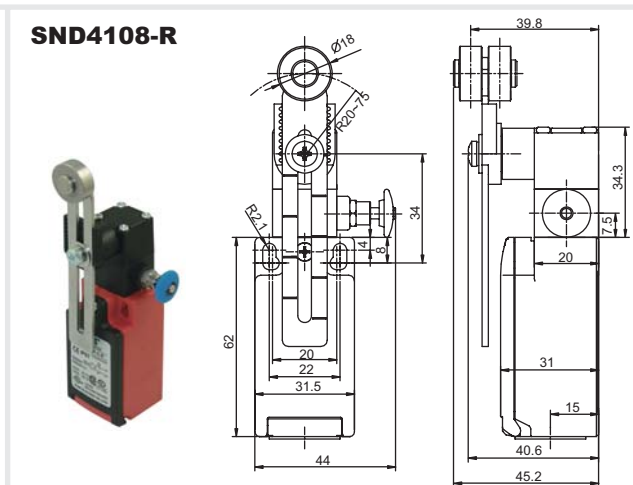
Order Code

SND4166-SP-\_-R SP snap action 1NO+1NC



Order Code

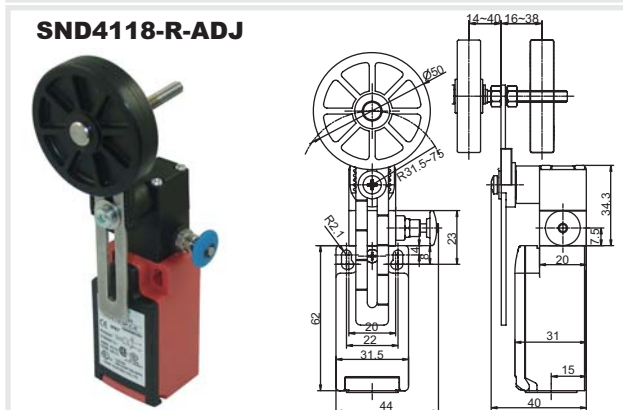
SND4169-SP-\_-R SP snap action 1NO+1NC



Order Code

Contact block

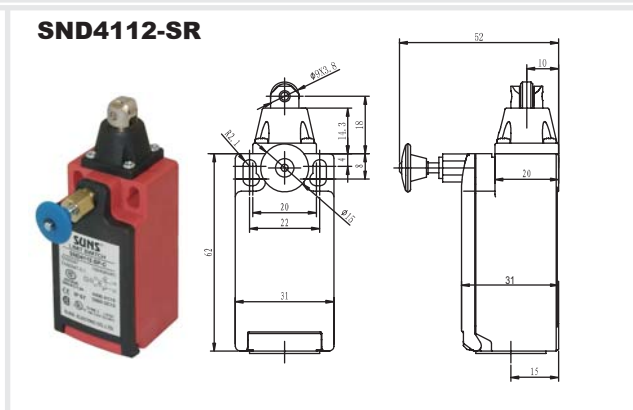
SND4108-SP-_-R	SP	⊕	snap action	1NO+1NC
SND4108-SL-_-R	SL	⊕	slow action	1NO+1NC BBM
SND4108-SL1-_-R	SL1	⊕	slow action	1NO+1NC MBB
SND4108-SL2-_-R	SL2	⊕	slow action	2NC



Order Code

Contact block

SND4118-SP-R-ADJ	SP	⊕	snap action	1NO+1NC
SND4118-SL-R-ADJ	SL	⊕	slow action	1NO+1NC BBM
SND4118-SL1-R-ADJ	SL1	⊕	slow action	1NO+1NC MBB
SND4118-SL2-R-ADJ	SL2	⊕	slow action	2NC

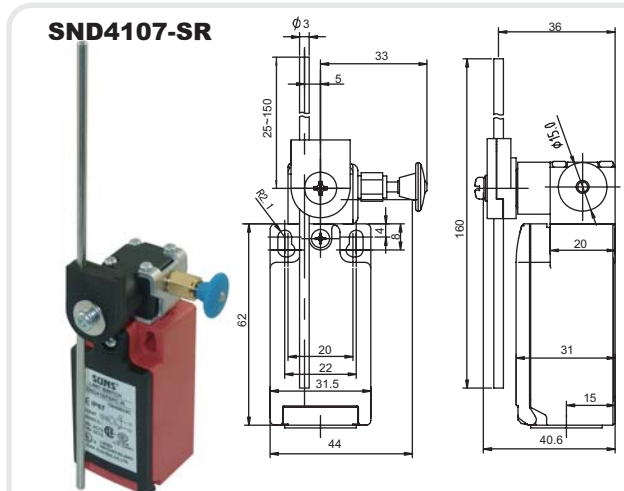


Order Code

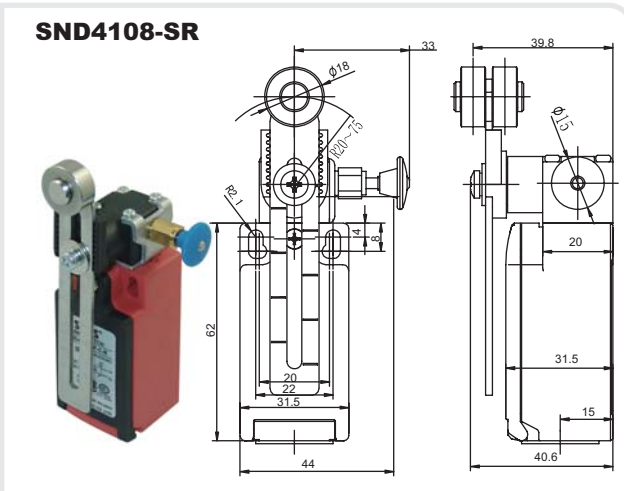
Contact block

SND4112-SP-SR	SP	⊕	snap action	1NO+1NC
SND4112-SL-SR	SL	⊕	slow action	1NO+1NC BBM
SND4112-SL1-SR	SL1	⊕	slow action	1NO+1NC MBB
SND4112-SL2-SR	SL2	⊕	slow action	2NC

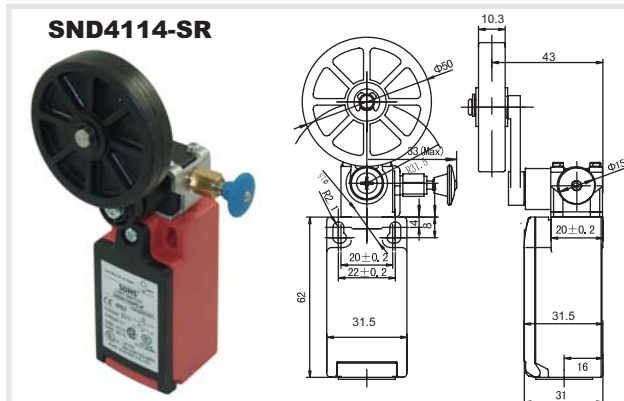
## GLOBAL STYLE SAFETY LIMIT SWITCHES (PLASTIC BODIED EN50047 TYPE) SND4 SERIES (SINGLE CONDUIT ENTRY WITH RESET)



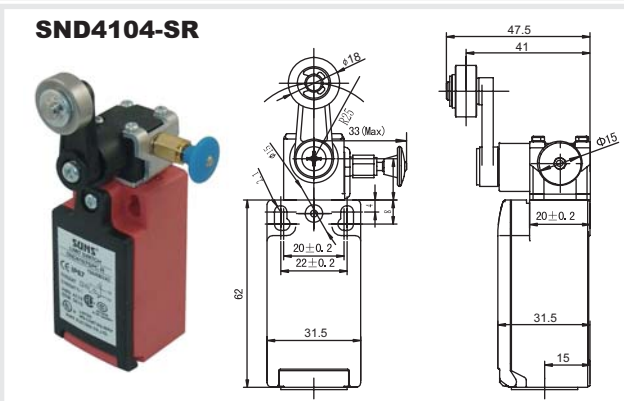
Order Code	Contact block	SP	SL	SL1	SL2	Action	Contacts
SND4107-SP- _SR	SP	+				snap action	1NO+1NC
SND4107-SL- _SR	SL		+			slow action	1NO+1NC BBM
SND4107-SL1- _SR	SL1			+		slow action	1NO+1NC MBB
SND4107-SL2- _SR	SL2				+	slow action	2NC



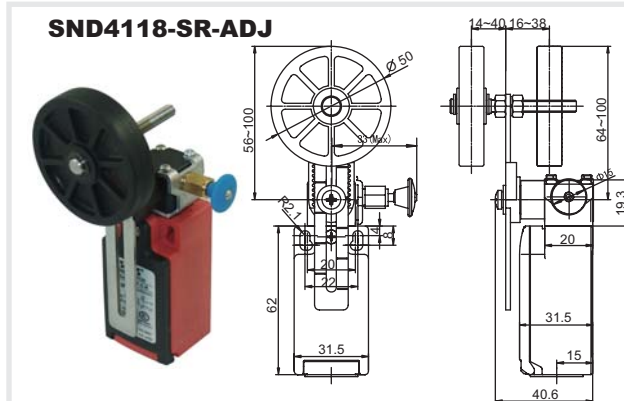
Order Code	Contact block	SP	SL	SL1	SL2	Action	Contacts
SND4108-SP- _SR	SP	+				snap action	1NO+1NC
SND4108-SL- _SR	SL		+			slow action	1NO+1NC BBM
SND4108-SL1- _SR	SL1			+		slow action	1NO+1NC MBB
SND4108-SL2- _SR	SL2				+	slow action	2NC



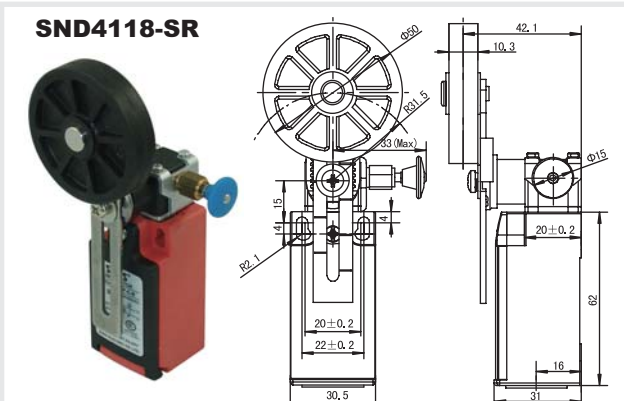
Order Code	Contact block	SP	SL	SL1	SL2	Action	Contacts
SND4114-SP- _SR	SP	+				snap action	1NO+1NC
SND4114-SL- _SR	SL		+			slow action	1NO+1NC BBM
SND4114-SL1- _SR	SL1			+		slow action	1NO+1NC MBB
SND4114-SL2- _SR	SL2				+	slow action	2NC



Order Code	Contact block	SP	SL	SL1	SL2	Action	Contacts
SND4104-SP- _SR	SP	+				snap action	1NO+1NC
SND4104-SL- _SR	SL		+			slow action	1NO+1NC BBM
SND4104-SL1- _SR	SL1			+		slow action	1NO+1NC MBB
SND4104-SL2- _SR	SL2				+	slow action	2NC



Order Code	Contact block	SP	SL	SL1	SL2	Action	Contacts
SND4118-SP- SR-ADJ	SP	+				snap action	1NO+1NC
SND4118-SL-SR-ADJ	SL		+			slow action	1NO+1NC BBM
SND4118-SL1-SR-ADJ	SL1			+		slow action	1NO+1NC MBB
SND4118-SL2-SR-ADJ	SL2				+	slow action	2NC



Order Code	Contact block	SP	SL	SL1	SL2	Action	Contacts
SND4118-SP- _SR	SP	+				snap action	1NO+1NC
SND4118-SL- _SR	SL		+			slow action	1NO+1NC BBM
SND4118-SL1- _SR	SL1			+		slow action	1NO+1NC MBB
SND4118-SL2- _SR	SL2				+	slow action	2NC