

INTERLOCKING SAFETY SWITCHES

Features

- Galvanically separated contacts
- Screw terminals with self-lifting clamps for easy wiring
- Positive Opening of NC contacts
- 4 x 90° actuator positions
- Horizontal or Vertical Operation

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-0.5m/s
Operating Frequency	Mechanical: 120ops/min Electrical: 30 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial value)
Rated Current/Voltage	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 x 10 ⁷ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-25~+80°C (-13~176°F)
Humidity	< 95%
Degree of Protection	IP67/ IP66(SMN4)

Plastic-Bodied Interlock Safety Switch

Selection Guide

SND2191

- Body Type
- SND2191 Mini Plastic Body, 2 Conduit
- SMN4191 Plastic Body, 1 Conduit
- SND4191 Plastic Body, 1 Conduit
- SND6191 Large Plastic Body, 1 Conduit
- SN6191 Metal Body, 1 Conduit
- SN6291 Metal Body, 1 Conduit
- SN6391 Metal Body, 3 Conduit

SL

- SL: 1NO/1NC Slow Action Changeover
- SL2: 2NC Slow Action
- SL6: 2NC/1NO Slow Action Changeover
- SL7: 2NC/1NO Slow Action Overlapping

C

- Conduit
- A: 1/2"NPT
- B: PG13.5
- C: M20
- D: M16
- B1: PG11

SND2191



SND2191-SL

Slow Action (Changeover)

1NO/1NC



Operation key insertion completion position 15N

30N Extraction completion position

24mm

SND2191-SL2

Slow Action

2NC



Operation key insertion completion position 15N

30N Extraction completion position

24mm

SND2191-SL7

Slow Action (Overlapping)

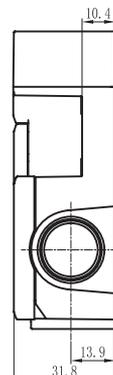
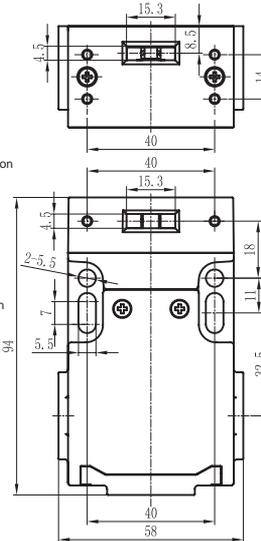
2NC/1NO



Operation key insertion completion position 15N

30N Extraction completion position

24mm



Order Code

Contact block

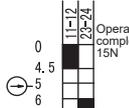
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SND2191-SL2- _	SL2		slow action	2NC	
SND2191-SL7- _	SL7		slow action	2NC/1NO	MBB

INTERLOCKING SAFETY SWITCHES

SMN4191

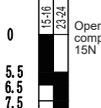
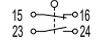


SMN4191-SL
slow action
(Changeover)
1NO/1NC



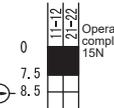
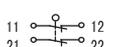
24mm

SMN4191-SL1
slow action
(Changeover)
1NC/1NO

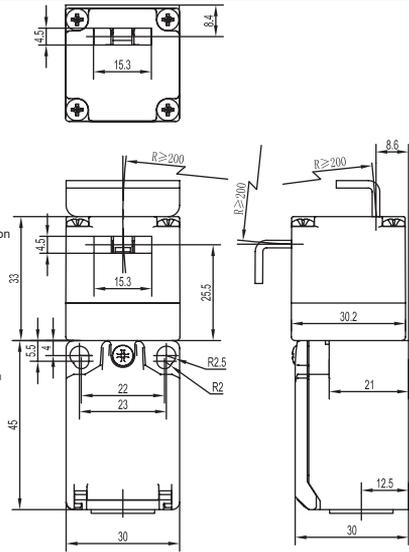


26mm

SMN4191-SL2
slow action
(Overlapping)
2NC



24mm



Order Code

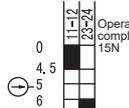
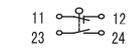
Contact block

SMN4191-SL- _	SL		slow action	1NO+1NC	BBM
SMN4191-SL1- _	SL1		slow action	1NC/1NO	
SMN4191-SL2- _	SL2		slow action	2NC	

SND4191

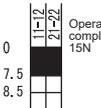
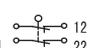


SND4191-SL
Slow Action
(Changeover)
1NO/1NC



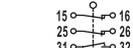
24mm

SND4191-SL2
Slow Action
2NC

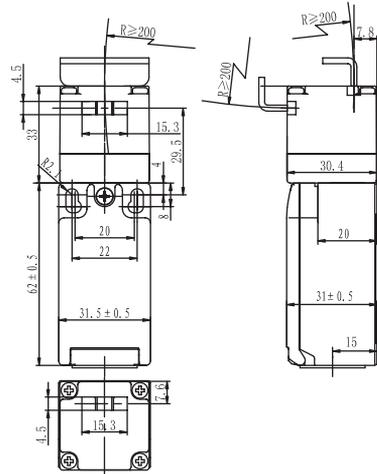


24mm

SND4191-SL7
Slow Action
(Overlapping)
2NC/1NO



24mm



Order Code

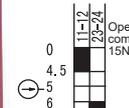
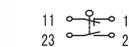
Contact block

SND4191-SL- _	SL		slow action	1NO+1NC	BBM
SND4191-SL2- _	SL2		slow action	2NC	
SND4191-SL7- _	SL7		slow action	2NC/1NO	MBB

SND4191(S)

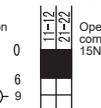


SND4191-SL_(S)
Slow Action
(Changeover)
1NO/1NC



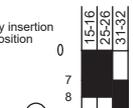
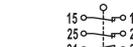
24mm

SND4191-SL2_(S)
Slow Action
2NC

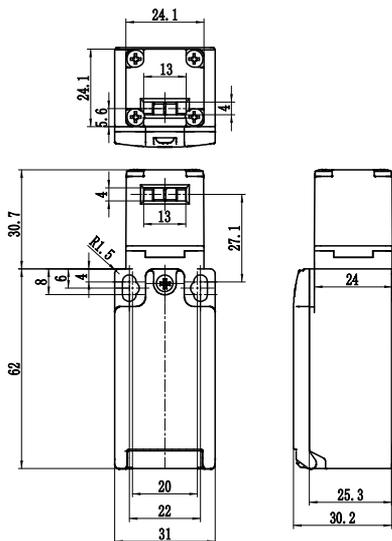


23mm

SND4191-SL7_(S)
Slow Action
(Overlapping)
2NC/1NO



24mm



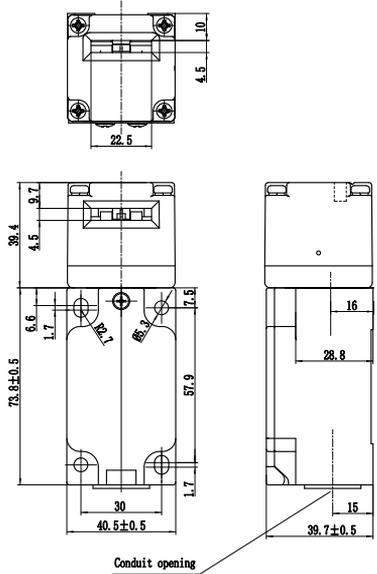
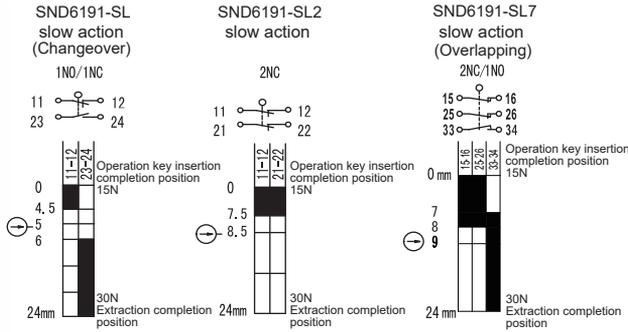
Order Code

Contact block

SND4191-SL- _	SL		slow action	1NO+1NC	BBM
SND4191-SL2- _	SL2		slow action	2NC	
SND4191-SL7- _	SL7		slow action	2NC/1NO	

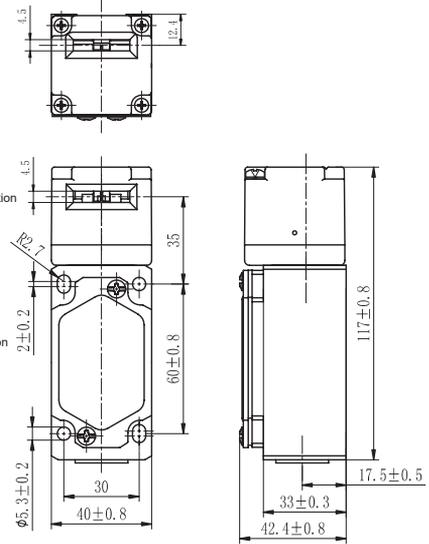
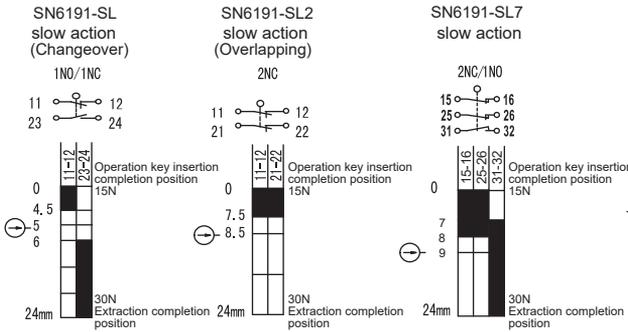
INTERLOCKING SAFETY SWITCHES

SND6191



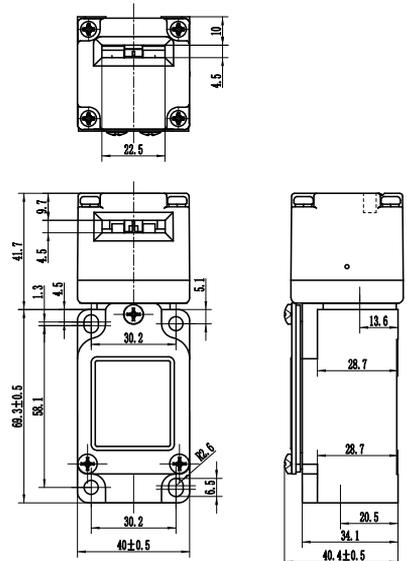
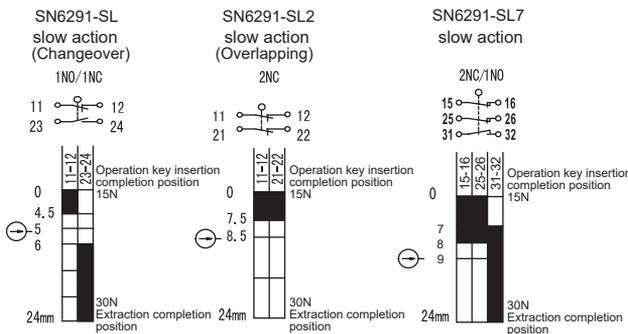
Order Code	Contact block	Configuration
SND6191-SL- _	SL (Changeover)	slow action 1NO+1NC BBM
SND6191-SL2- _	SL2 (2NC)	slow action 2NC
SND6191-SL7- _	SL7 (2NC/1NO)	slow action 2NC/1NO

SN6191 Metal Enclosure, Metal Head



Order Code	Contact block	Configuration
SN6191-SL- _	SL (Changeover)	slow action 1NO+1NC BBM
SN6191-SL2- _	SL2 (2NC)	slow action 2NC
SN6191-SL7- _	SL7 (2NC/1NO)	slow action 2NC/1NO

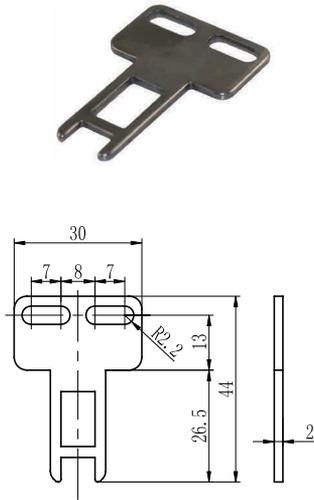
SN6291 Metal Enclosure, Metal Head



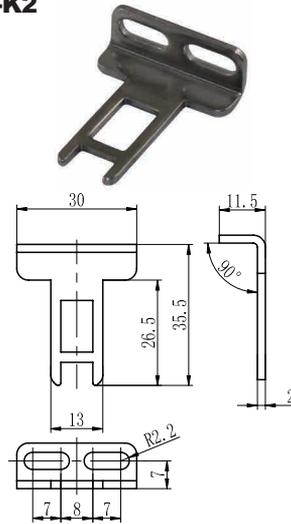
Order Code	Contact block	Configuration
SN6291-SL- _	SL (Changeover)	slow action 1NO+1NC BBM
SN6291-SL2- _	SL2 (2NC)	slow action 2NC
SN6291-SL7- _	SL7 (2NC/1NO)	slow action 2NC/1NO

INTERLOCKING SAFETY SWITCHES KEY

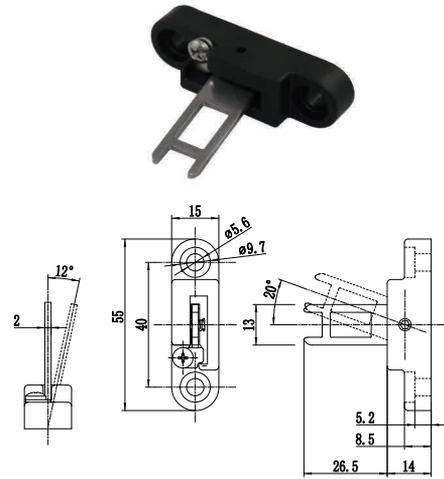
SND-K1



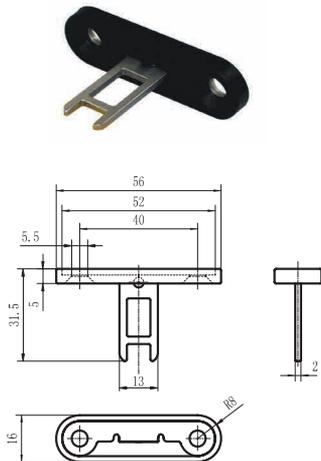
SND-K2



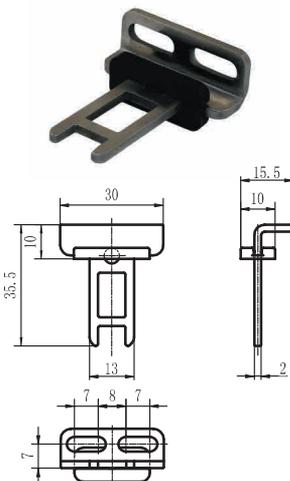
SND-K3



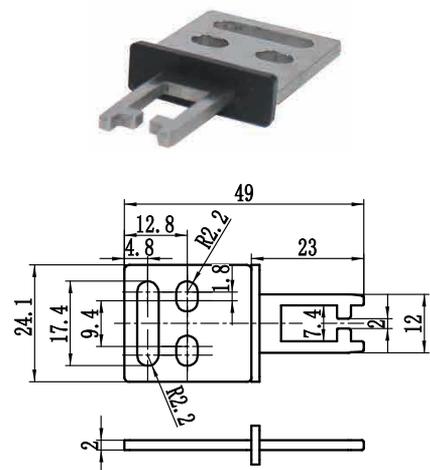
SND-K4



SND-K5



SND-K6



. For use with SND2, SND4, SMN4 and SND6 (Material: stainless steel)