

CP-7 SERIES CABLE PULL SAFETY SWITCHES

Features

- Max span 80 meter (262ft)
- Compatible to EN418 required with emergency stop button on the surface cover
- Works in two direction: tripped when the wire is pulled or breaking.
- Optional indicator light to show the state.
- Positive Opening of NC contacts
- Conform to EN60947-5-5, ISO13850, ISOTR 12100, IEC 60947-5-1, EN 418

Specifications

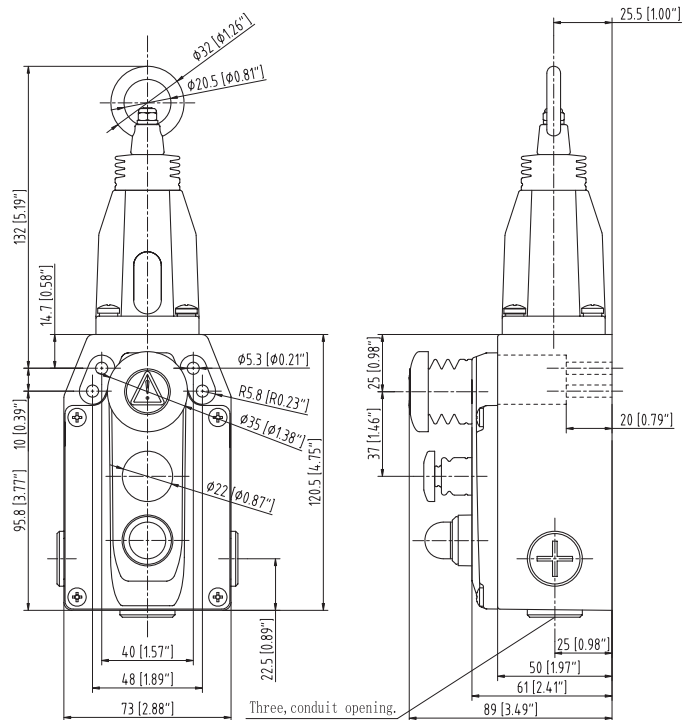
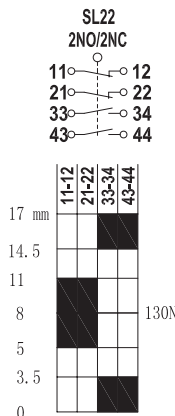
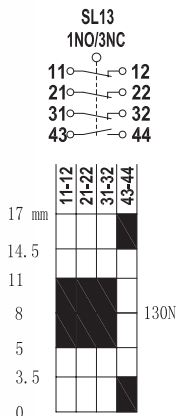
Operating Frequency	Mechanical: 120ops/min Electrical: 30 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial value)
Rated Current/Voltage	Ith:10A 600V AC (EN60947-5-1) AC15 A600 / DC13 Q300
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanical: 1.0 x 10 ⁶ (operations) Electrical: 5 x 10 ⁵ (operations)
Operating Temperature	-25~+80°C (-13~176°F)
Humidity	< 95%RH
Degree of Protection	IP67

Selection Guide:

CP-7170	-	SL22	-	A	-	R	-	24	-	E
		Contact Block		Conduits				LED		Emergency stop button
		SL13: 1NO/3NC		A: 1/2NPT				Blank		
		SL22: 2NO/2NC		C: M20				24: 24VDC		Blank
								120: 120VAC		E: Emergency stop button
								240: 240VAC		

Please contact us for other contact block configuration

CP-7170



CP-8 SERIES CABLE PULL SAFETY SWITCHES

Features

- Max span 160m (524ft) for CP8171, 80m(262ft) for CP8171R and CP8171L
- Compatible to EN418 required with emergency stop button on the surface cover
- Works in two direction: tripped when the wire is pulled or breaking.
- Optional indicator light to show the state.
- Positive Opening of NC contacts
- Conform to EN60947-5-5, ISO13850, ISOTR 12100, IEC 60947-5-1, EN 418

Specifications

Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial value)
Rated Current/Voltage	Ith: 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	Mechanical: 1.0 x 10 ⁶ (operations) Electrical: 5 x 10 ⁵ (operations)
Operating Temperature	-25~+80°C (-13~176°F)
Humidity	< 95%RH
Degree of Protection	IP67

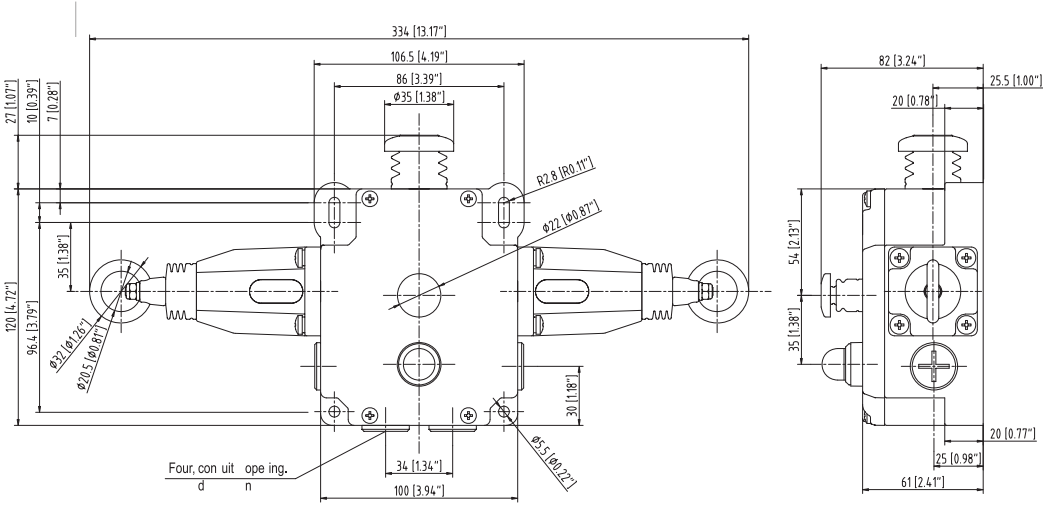
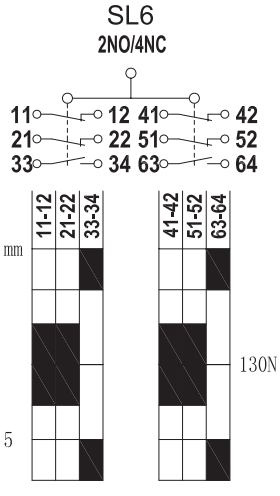
Selection Guide:

CP-81 - 71 - SL6 - A - R - 24 - E

- 71**: Pull direction
 - 71L: Left
 - 71R: Right
 - 71: Left and right
- SL6**: 4NC/2NO
- A**: Conduits
 - A: 1/2NPT
 - C: M20
- R**: LED
 - Blank
 - 24: 24VDC
 - 120: 120VAC
 - 240: 240VAC
- E**: Emergency stop button
 - Blank
 - E: Emergency stop button

CP-8171

CP-8171L



CABLE PULL SAFETY SWITCHES (One - Way Actuation)

Features

- Galvanically separated contacts
- Screw terminals with self-lifting clamps for easy wiring
- Positive Opening of NC contacts

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/sec
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 x10 ⁷ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-25~+80°C (-13~176°F)
Humidity	< 95%RH
Degree of Protection	IP65/IP67

Selection Guide:

SN6170

- Body Style
 - SND4170 Small plastic, 1 conduit
 - SND2170 plastic, 2 conduits
 - SND6170 Large plastic, 1 conduit
 - SN4170 Small metal, 1 conduit
 - SN2170 Metal, 2 conduits
 - SN6170 Large metal, 1 conduit

SL

- Contact Block
 - SL: 1NO/1NC Slow Action changeover
 - SL1: 1NO/1NC Slow Action Overlapping
 - SL2: 2NC Slow Action
 - SL7: 2NC/1NO Slow Action Overlapping

C

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

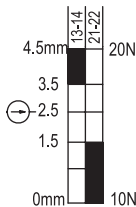
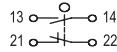
R

- Lock/Reset Function
 - Blank
 - R: with Reset Function

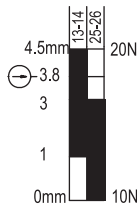
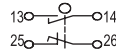
SND4170



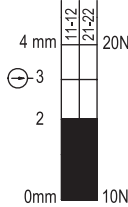
SND4170-SL Slow Action (Changeover)



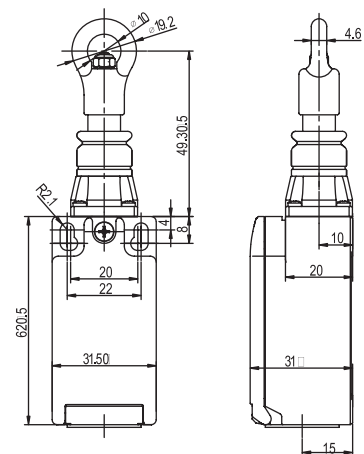
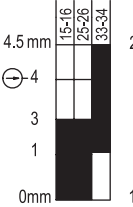
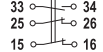
SND4170-SL1 Slow Action (Overlapping)



SND4170-SL2 Slow Action



SND4170-SL7 Slow Action (Overlapping)



Order Code

Contact block

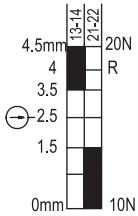
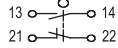
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SND4170-SL2- _	SL2	⊕	slow action	2NC
SND4170-SL7- _	SL7	⊕	slow action	2NC+1NO

CABLE PULL SAFETY SWITCHES (One - Way Actuation)

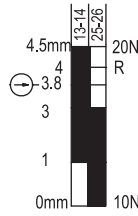
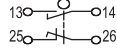
SND4170-R



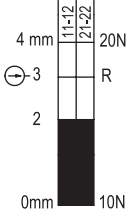
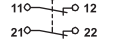
SND4170-SL-R
Slow Action
(Changeover)



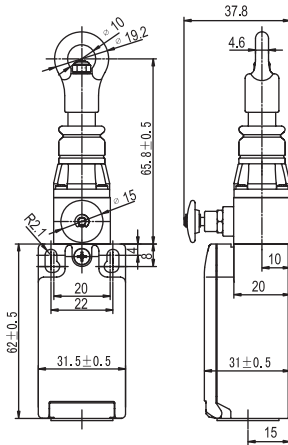
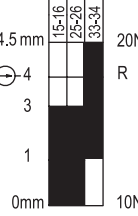
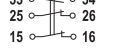
SND4170-SL1-R
Slow Action
(Overlapping)



SND4170-SL2-R
Slow Action



SND4170-SL7-R
Slow Action
(Overlapping)



Order Code

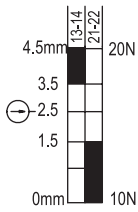
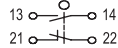
Contact block

SND4170-SL- _R	SL	⊕	slow action	1NO+1NC	BBM
SND4170-SL1- _R	SL1	⊕	slow action	1NO+1NC	MBB
SND4170-SL2- _R	SL2	⊕	slow action	2NC	
SND4170-SL7- _R	SL7	⊕	slow action	2NC+1NO	

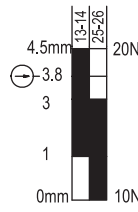
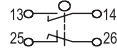
SND2170



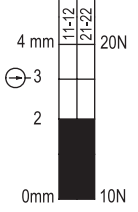
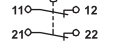
SND2170-SL
Slow Action
(Changeover)



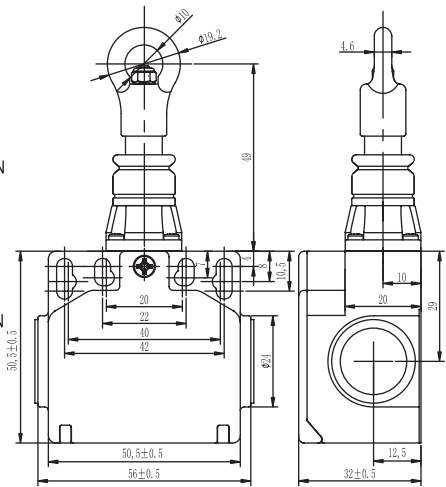
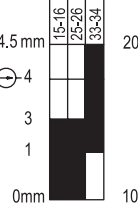
SND2170-SL1
Slow Action
(Overlapping)



SND2170-SL2
Slow Action



SND2170-SL7
Slow Action
(Overlapping)



Order Code

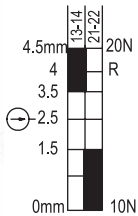
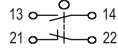
Contact block

SND2170-SL- _	SL	⊕	slow action	1NO+1NC	BBM
SND2170-SL1- _	SL1	⊕	slow action	1NO+1NC	MBB
SND2170-SL2- _	SL2	⊕	slow action	2NC	
SND2170-SL7- _	SL7	⊕	slow action	2NC+1NO	

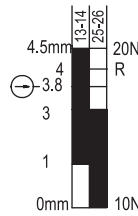
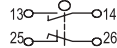
SND2170-R



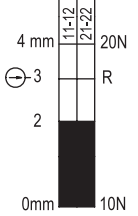
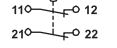
SND2170-SL-R
Slow Action
(Changeover)



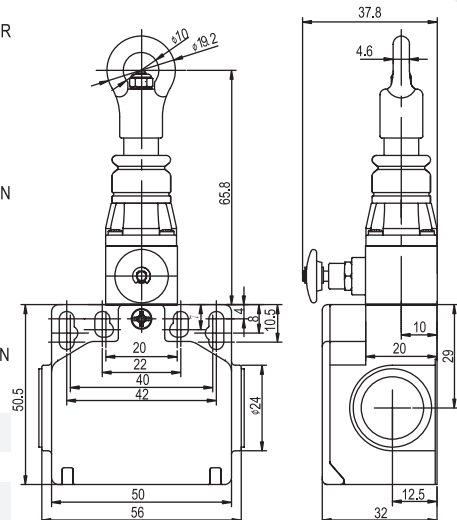
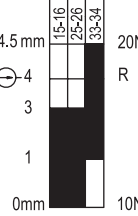
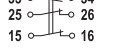
SND2170-SL1-R
Slow Action
(Overlapping)



SND2170-SL2-R
Slow Action



SND2170-SL7-R
Slow Action
(Overlapping)



Order Code

Contact block

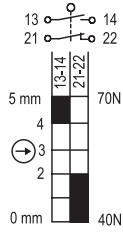
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SND2170-SL1- _R	SL1	⊕	slow action	1NO+1NC	MBB
SND2170-SL2- _R	SL2	⊕	slow action	2NC	
SND2170-SL7- _R	SL7	⊕	slow action	2NC+1NO	

CABLE PULL SAFETY SWITCHES (One - Way Actuation)

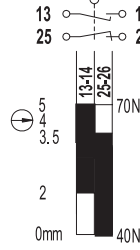
SND6170



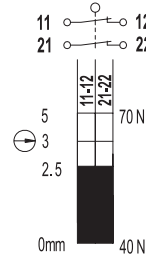
SND6170-SL
Slow Action
(Changeover)



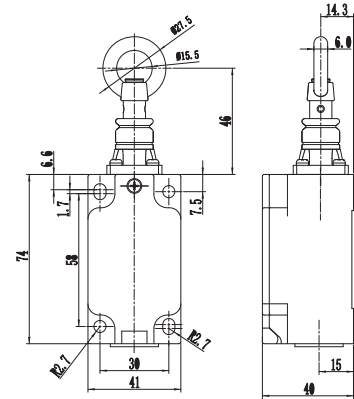
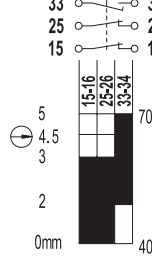
SND6170-SL1
Slow Action
(Overlapping)



SND6170-SL2
Slow Action



SND6170-SL7
Slow Action
(Overlapping)



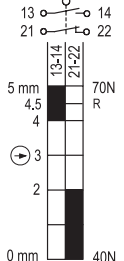
Order Code Contact block

SND6170-SL-	SL		slow action	1NO+1NC	BBM
SND6170-SL1-	SL1		slow action	1NO+1NC	MBB
SND6170-SL2-	SL2		slow action	2NC	
SND6170-SL7-	SL7		slow action	2NC+1NO	

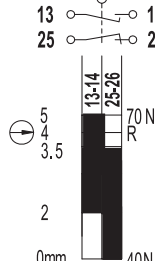
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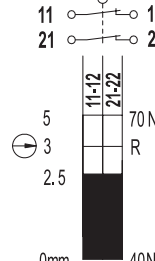
SND6170-SL-R
Slow Action
(Changeover)



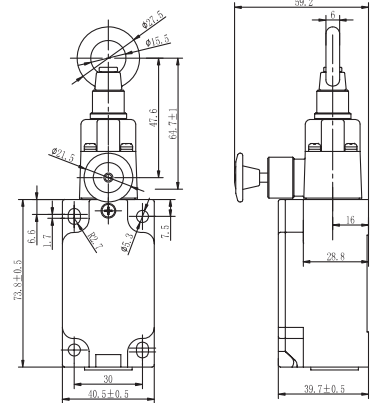
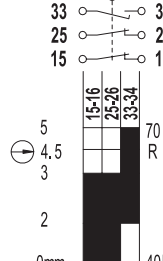
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Slow Action
(Overlapping)



SND6170-SL2-R
Slow Action



SND6170-SL7-R
Slow Action
(Overlapping)



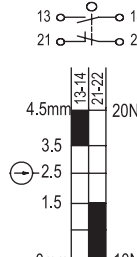
Order Code Contact block

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SND6170-SL2-_R	SL2		slow action	2NC	
SND6170-SL7-_R	SL7		slow action	2NC+1NO	

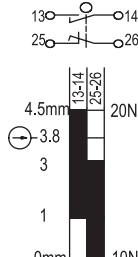
SN4170



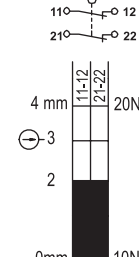
SN4170-SL
Slow Action
(Changeover)



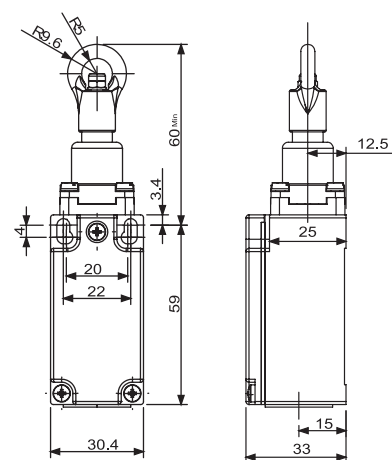
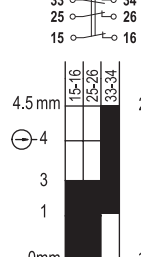
SN4170-SL1
Slow Action
(Overlapping)



SN4170-SL2
Slow Action



SN4170-SL7
Slow Action
(Overlapping)



Order Code Contact block

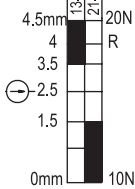
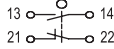
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SN4170-SL1-	SL1		slow action	1NO+1NC	MBB
SN4170-SL2-	SL2		slow action	2NC	
SN4170-SL7-	SL7		slow action	2NC+1NO	

CABLE PULL SAFETY SWITCHES (One - Way Actuation)

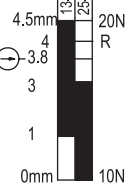
SN4170-R



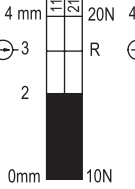
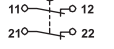
SN4170-SL-R
Slow Action
(Changeover)



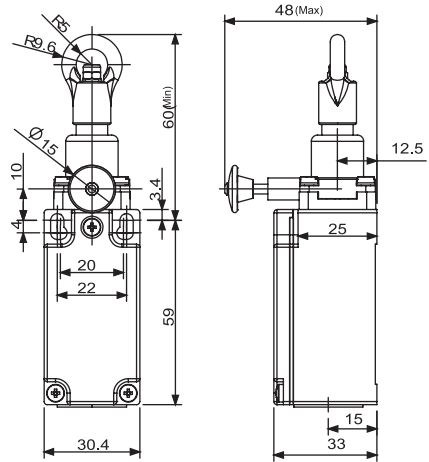
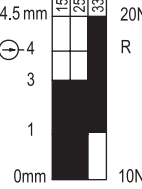
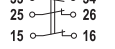
SN4170-SL1-R
Slow Action
(Overlapping)



SN4170-SL2-R
Slow Action



SN4170-SL7-R
Slow Action
(Overlapping)



Order Code

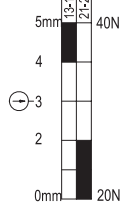
Contact block

SN4170-SL- _R	SL		slow action	1NO+1NC	BBM
SN4170-SL1- _R	SL1		slow action	1NO+1NC	MBB
SN4170-SL2- _R	SL2		slow action	2NC	
SN4170-SL7- R	SL7		slow action	2NC+1NO	

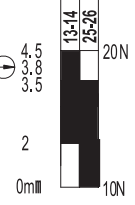
SN2170



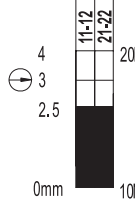
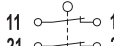
SN2170-SL
Slow Action
(Changeover)



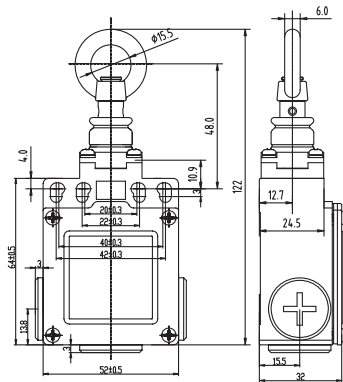
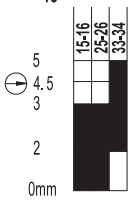
SN2170-SL1
Slow Action
(Overlapping)



SN2170-SL2
Slow Action



SN2170-SL7
Slow Action
(Overlapping)



Order Code

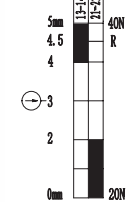
Contact block

SN2170-SL-	SL		slow action	1NO+1NC	BBM
SN2170-SL1-	SL1		slow action	1NO+1NC	MBB
SN2170-SL2-	SL2		slow action	2NC	
SN2170-SL7-	SL7		slow action	2NC+1NO	

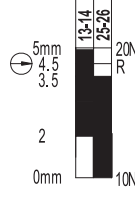
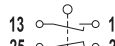
SN2170-R



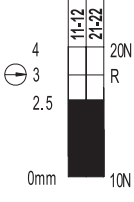
SN2170-SL-R
Slow Action
(Changeover)



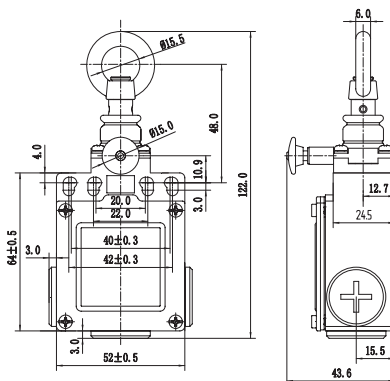
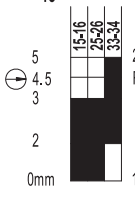
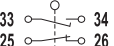
SN2170-SL1-R
Slow Action
(Overlapping)



SN2170-SL2-R
Slow Action



SN2170-SL7-R
Slow Action
(Overlapping)



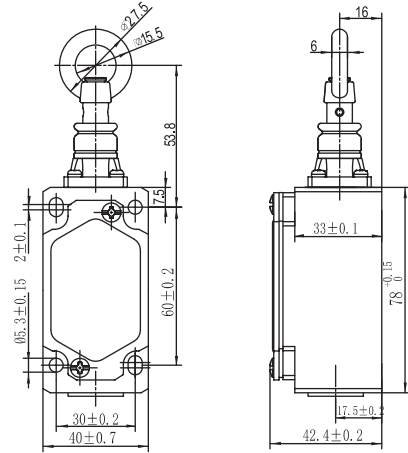
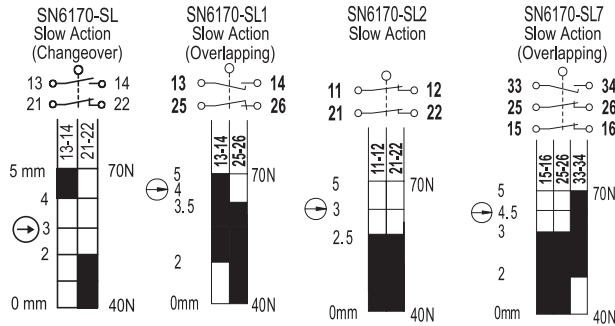
Order Code

Contact block

SN2170-SL- _R	SL		slow action	1NO+1NC	BBM
SN2170-SL1- _R	SL1		slow action	1NO+1NC	MBB
SN2170-SL2- _R	SL2		slow action	2NC	
SN2170-SL7- R	SL7		slow action	2NC+1NO	

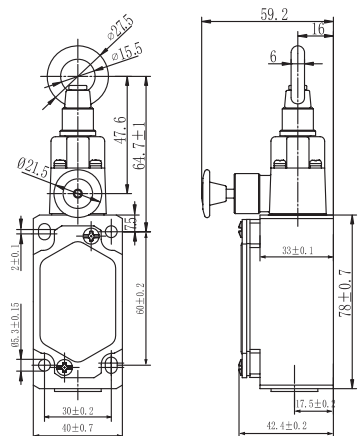
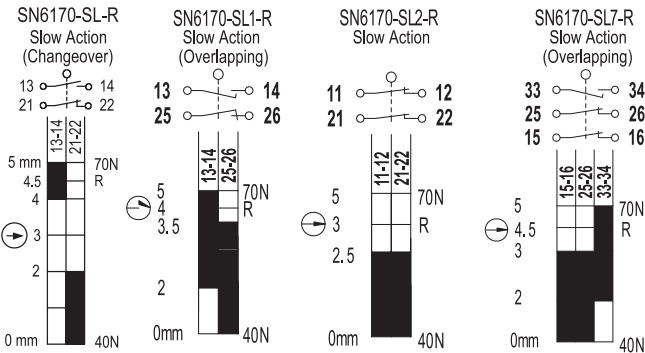
CABLE PULL SAFETY SWITCHES (One - Way Actuation)

SN6170



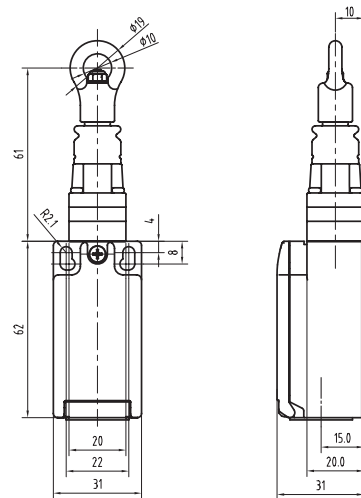
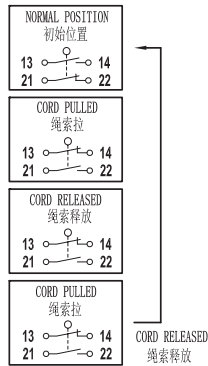
Order Code	Contact block			
SN6170-SL- _	SL		slow action	1NO+1NC BBM
SN6170-SL1- _	SL1		slow action	1NO+1NC MBB
SN6170-SL2- _	SL2		slow action	2NC
SN6170-SL7- _	SL7		slow action	2NC+1NO

SN6170-R



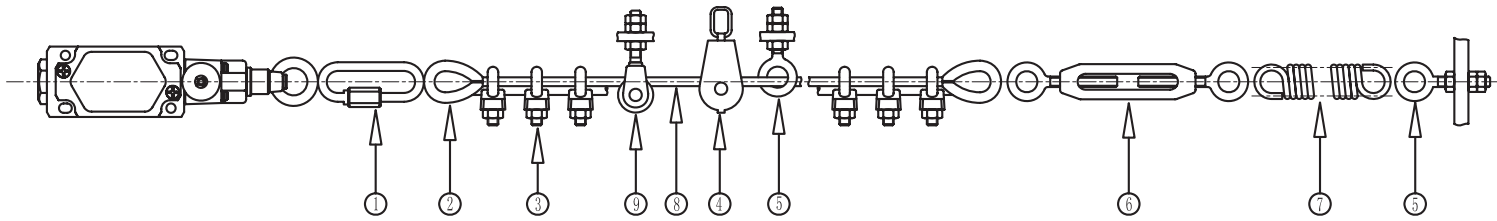
Order Code	Contact block			
SN6170-SL- _R	SL		slow action	1NO+1NC BBM
SN6170-SL1- _R	SL1		slow action	1NO+1NC MBB
SN6170-SL2- _R	SL2		slow action	2NC
SN6170-SL7- _R	SL7		slow action	2NC+1NO

SND4170 M



Order Code	Contact block			
SND4170-SL- C M	SL		slow action	1NO+1NC BBM

CABLE PULL SAFETY SWITCHES Accessories



① CPA-01



② CPA-02
Wire rope thimble (rope eye)

③ CPA-03
Cable/rope clamp



④ CPA-04 Pulley

⑤ CPA-05 Stay bolt



⑥ CPA-06
Turnbuckle for adjusting cable tension

⑦ CPA-07 Spring

⑧ CPA-08

Φ 5mm Zinc-plated steel rope coated with PVC

- CPA-08-010 (10 m rope)
- CPA-08-020 (20 m rope)
- CPA-08-035 (35 m rope)
- CPA-08-100 (100 m rope)

