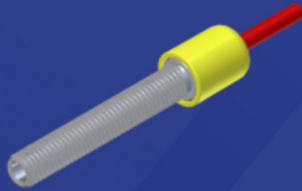




# ELECTRICAL COMPONENTS

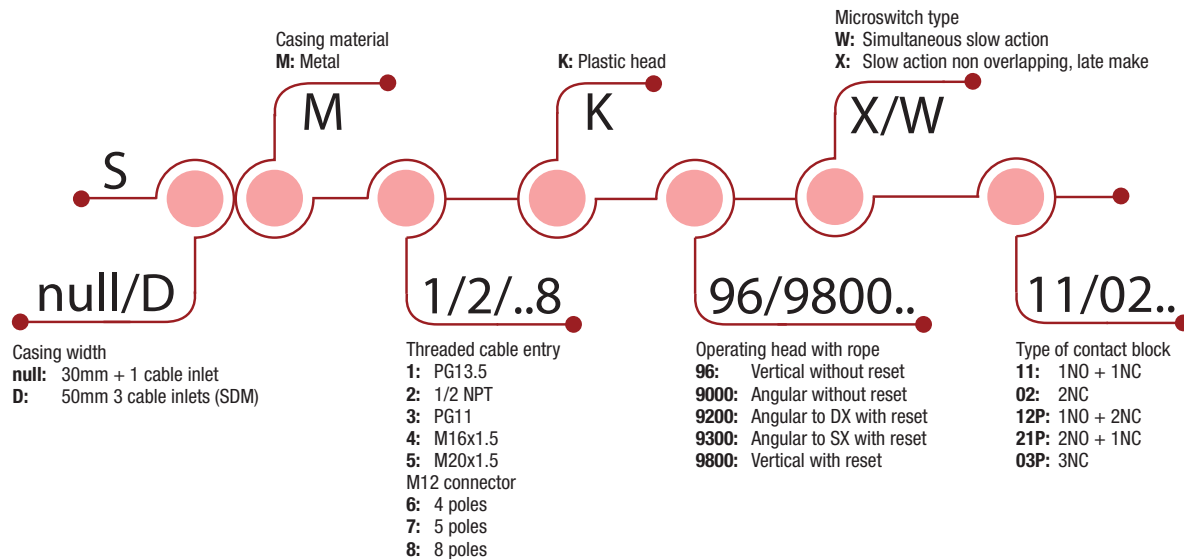
## Rope Pull Safety Limit Switches

- 30, 40, 50 & 60mm widths
- Metallic Body



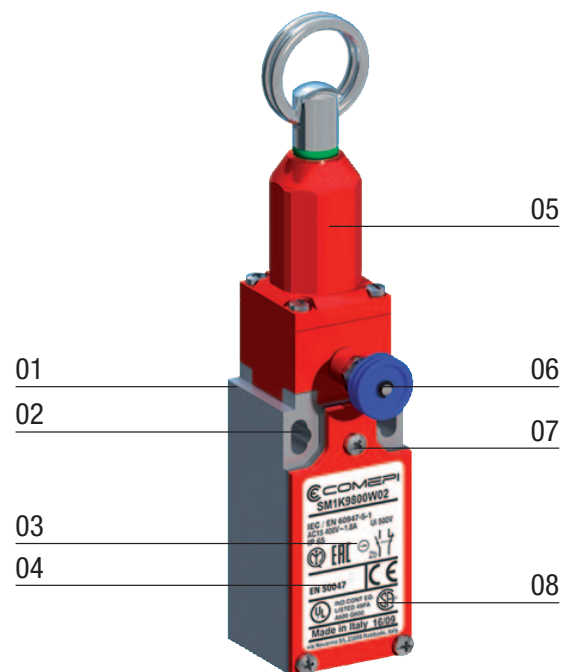
## Safety Limit Switches with rope

**APPROVALS:** UL 508 / CSA C22-2 N. 14



### HOW IS IT MADE?

- 01 Casing**
  - SM with dimensions acc. to EN 50047
- 02 Mounting the casing**
  - 2 x M4 screws on top part for SM series
  - 2 or 4 x M4 screws on top part for SDM series
- 03 Contact Block**
  - Positive opening operation
  - Slow action contacts
  - Contacts are electrically separated
- 04 Connecting terminals**
  - Block of 2 contacts: M3.5 (+, -) pozidriv 2 screws
  - Block of 3 contacts: M3 (+, -) screws
  - Screw head with captive cable clamp
  - Markings conform with IEC 60947-1, IEC 60947-5-1 standard
- 05 Operating heads**
  - Straight
  - 90° right
  - 90° left
- 06 Reset**
  - Manual reset button for emergency stop
- 07 Cover**
  - 3 screws 3 pozidriv 1 for SM series
  - 4 screws 3 pozidriv 1 for SDM series
- 08 Electrical connection**
  - 1 x threaded cable inlet suitable for cable gland (SM)
  - 3 x threaded cable inlets suitable for cable gland (SDM)
  - 1 x M12 connector for pre-wired solutions (SM)



## Safety Limit Switches with rope - Description

### APPLICATIONS

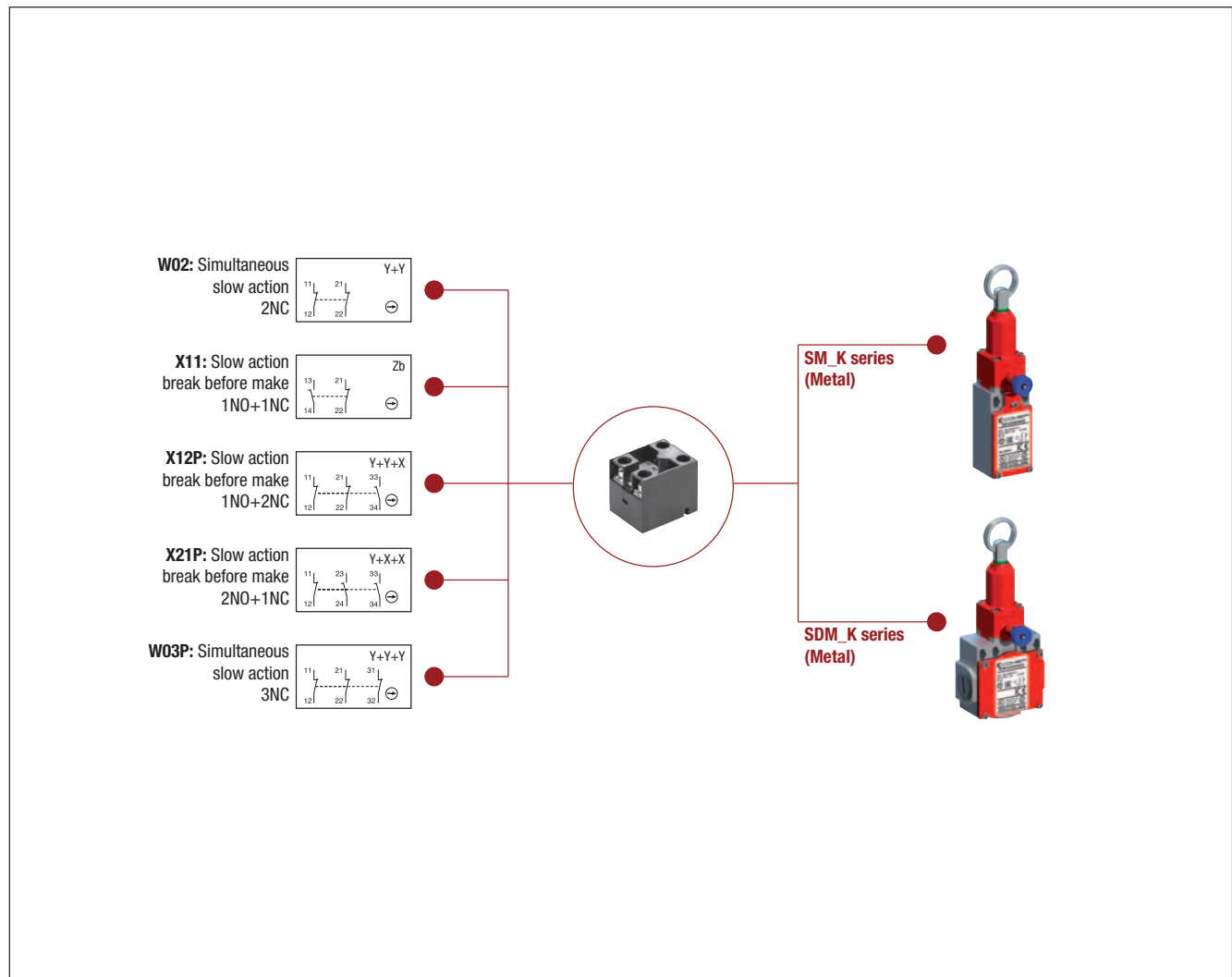
Easy to use, the limit switches for safety applications with rope for simple and emergency stop offer specific qualities:

- Capability for strong current switching (conventional thermal current 10 A).
- Contact blocks with positive opening operation of the "N.C." normally closed contact(s) (symbol  $\ominus$ ).
- Electrically separated contacts.
- Precision on operating positions (consistency).
- Immunity to electromagnetic disturbances.

The use of the Comepi pull wire safety switches allows you to create perimeter protections of the machines, thus reducing the need to install sever emergency stop stations in different points of the machine. They comply with the requirements of European Directives (Low Voltage and Machines Directive) and are conform to European and international standards.

### DESCRIPTION

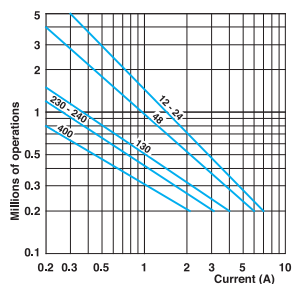
SM/SDM series are made of zinc alloy (zamack). All metal limit switches have a degree of protection IP66.



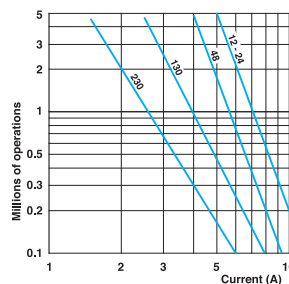
## Safety Limit Switches with rope - Technical Data

		SM / SDM Series	
<b>Standards</b>		IEC 60947-5-1, EN 60947-5-1 EN 60947-5-5 (modelli con riarmo manuale)	
<b>Certifications - Approvals</b>		UL - CSA - IMQ - EAC - CCC	
<b>Air temperature</b> near the device			
- during operation	°C	- 25 ... + 70	
- for storage	°C	- 30 ... + 80	
<b>Mounting positions</b>		All positions are authorized	
<b>Protection against electrical shocks</b> (acc. to IEC 61140)		Class I	
<b>Degree of protection</b> (according to IEC 60529 and EN 60529)		IP 66	
<b>Electrical Data</b>			
<b>Rated insulation voltage <math>U_i</math></b> - according to IEC 60947-1 and EN 60947-1 - according to UL 508 and CSA C22-2 n° 14		500 V (degree of pollution 3) (400 V for contacts type X12P, X21P, W03P) A 600, Q 600 (A 300, Q 300 for SM/SDM series and contacts type X12P, X21P, W03P)	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b> (according to IEC 60947-1 and EN 60947-1)		kV	6
<b>Conventional free air thermal current <math>I_{th}</math></b> (according to IEC 60947-5-1) $\theta < 40$ °C		A	10
<b>Short-circuit protection</b>			
$U_e < 500$ V a.c. - gG (gl) type fuses		A	10
<b>Rated operational current</b>			
$I_e$ / AC-15 (according to IEC 60947-5-1)	24 V - 50/60 Hz	A	10
	120 V - 50/60 Hz	A	6
	400 V - 50/60 Hz	A	4 (1.8A for contacts type X12, X21, W03)
$I_e$ / DC-13 (according to IEC 60947-5-1)	24 V - d.c.	A	6 (2.8A for contacts type X12, X21, W03)
	125 V - d.c.	A	0.55
	250 V - d.c.	A	0.4 (0.27A for contacts type X12, X21, W03)
<b>Switching frequency</b>	Cycles/h	3600	
<b>Load factor</b>		0.5	
<b>Resistance between contacts</b>	mΩ	25	
<b>Connecting terminals</b>		M3.5 (+, -) pozidriv 2 screw with cable clamp (M3 for 3 poles contacts type)	
<b>Terminal for protective conductor</b>		M3.5 (+, -) pozidriv 2 screw with cable clamp	
<b>Recommended tightening torque</b>			
Cover		<b>Plastic</b>	<b>Metal</b>
Head		0,5Nm, max 0,8	0,8Nm, max 0,9
Microswitch		0,5Nm, max 0,8	0,8Nm, max 0,9
		0,8Nm, max 0,9	0,8Nm, max 0,9
<b>Connecting capacity</b>	1 or 2 x mm <sup>2</sup>	0.34 ... 2.5 (0.34... 1.5 for 3 poles contacts type)	
<b>Terminal marking</b>		According to IEC 60947-5-1	
<b>Mechanical durability</b>		500.000 operations	
<b>Electrical durability</b> (according to IEC 60947-5-1)		Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)	
<b>B10d</b>		1 million of operations	

AC-15 - Snap action



AC-15 - Slow action



DC-13	Snap action	Slow action
		Power breaking for a durability of 5 million operating cycles
Voltage	24 V	12 W
Voltage	48 V	9 W
Voltage	110 V	6 W

## Safety Limit Switches with rope - Technical Data

### Technical data approved by IMQ

<b>Standards</b>	Devices conform with international IEC 60947-5-1 and European EN 60947-5-1 standards	
<b>Degree of protection</b>	IP 66	
<b>Rated insulation voltage <math>U_i</math></b>	500 V (degree of pollution 3) (400 V for contacts type X12P, X21P, W03P)	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	6 kV	
<b>Conventional free air thermal current <math>I_{th}</math></b>	10 A	
<b>Short-circuit protection - gG (gl) type fuses</b>	10 A	
<b>Rated operational current <math>I_e</math></b>		
$I_e$ / AC-15	24 V - 50/60 Hz	10 A
	400 V - 50/60 Hz	4 A (1.8A for contacts type X12, X21, W03)
$I_e$ / DC-13	24 V - d.c.	6 A (2.8A for contacts type X12, X21, W03)
	125 V - d.c.	0,55 A
	250 V - d.c.	0.4 A (0.27A for contacts type X12, X21, W03)

### Technical data approved by UL

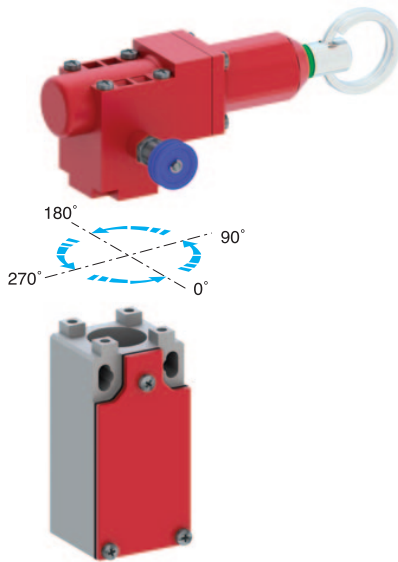
<b>Standards</b>	Devices conform with UL 508	
<b>Contact blocks type X11, Y11, W02</b>		
<b>Utilization categories</b>	A600, Q600 (A300, Q300 when installed in SM/SDM series)	
<b>Contact blocks type X12, X21, W03</b>		
<b>Utilization categories</b>	A600, Q600	
<b>Contact blocks type X12P, X21P and W03P</b>		
<b>Utilization categories</b>	A300, Q300	
<b>Utilization categories</b>		
Use 60/75°C copper (Cu) conductor only. Wire rages 14-18 AWG stranded or solid. The terminal tightening torque of 7 lbs-in / 0.78 Nm. Suitable for conduit connection only with use of adapter sleeve optionally provided or recommended by the manufacturer.		

For the complete list of approved products, contact our technical department

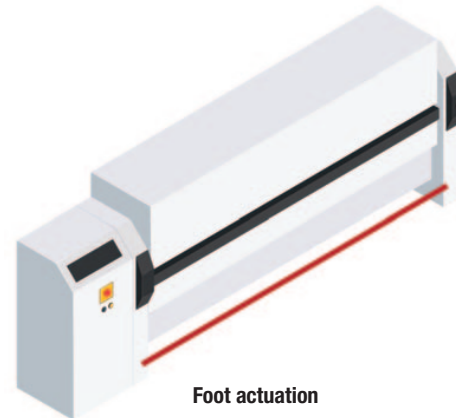
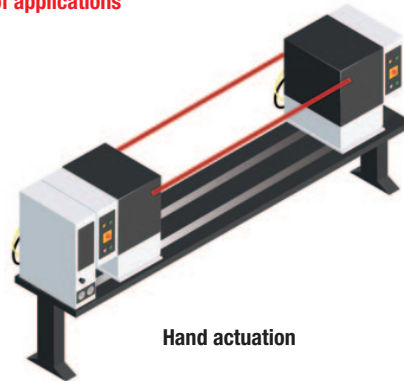
## IMPLEMENTATION

### Operating head orientation

The head can be rotated each 90°. Recommended tightening torque 0,5 Nm (max 0,8 Nm).



### Examples of applications



### Download

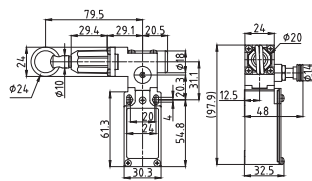
Instruction sheet – Pull wire safety limit switches

# Safety Limit Switches **SM/SDM\_K**

## Pull wire with reset for emergency stop - Metal casing - IP66

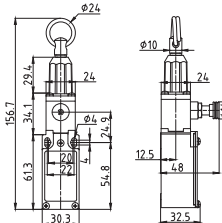
**Electrical connection:**  
 Replace the symbol “•” with the number of the thread desired  
 1: Cable gland PG 13.5  
 2: Cable gland 1/2” NPT (with adapter)  
 3: Cable gland PG 11  
 4: Cable gland M16 x 1,5  
 5: Cable gland M20 x 1,5  
 7: M12 5 poles connector  
 8: M12 8 poles connector

**K9300** Pull wire with reset for emergency stop



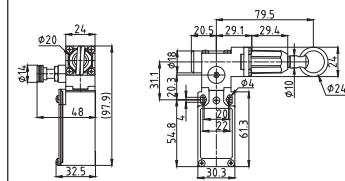
Min. forces Initial 65N, Final 85N (95N ⊖)  
 Weight 275 g  
 Operating diagram Page 97

**K9800** Pull wire with reset for emergency stop



Min. forces Initial 60N, Final 80N (90N ⊖)  
 Weight 230 g  
 Operating diagram Page 97

**K9200** Pull wire with reset for emergency stop



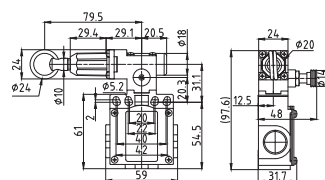
Min. forces Initial 65N, Final 85N (95N ⊖)  
 Weight 275 g  
 Operating diagram Page 97

**Contact Blocks**

X11 (1NO+1NC)	SM•K9300X11	SM•K9800X11	SM•K9200X11
W02 (2NC)	SM•K9300W02	SM•K9800W02	SM•K9200W02
X12P (1NO+2NC)	SM•K9300X12P	SM•K9800X12P	SM•K9200X12P
X21P (2NO+1NC)	SM•K9300X21P	SM•K9800X21P	SM•K9200X21P
W03P (3NC)	SM•K9300W03P	SM•K9800W03P	SM•K9200W03P

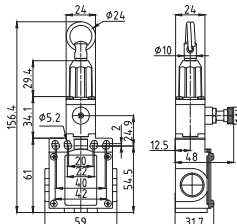
**Electrical connection:**  
 Replace the symbol “•” with the number of the thread desired  
 1: Cable gland PG 13.5  
 2: Cable gland 1/2” NPT (with adapter)  
 3: Cable gland PG 11  
 4: Cable gland M16 x 1,5  
 5: Cable gland M20 x 1,5

**K9300** Pull wire with reset for emergency stop



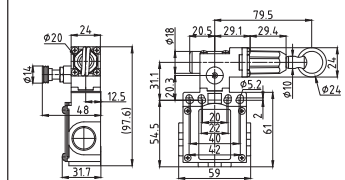
Min. forces Initial 65N, Final 85N (95N ⊖)  
 Weight 365 g  
 Operating diagram Page 97

**K9800** Pull wire with reset for emergency stop



Min. forces Initial 60N, Final 80N (90N ⊖)  
 Weight 320 g  
 Operating diagram Page 97

**K9200** Pull wire with reset for emergency stop



Min. forces Initial 65N, Final 85N (95N ⊖)  
 Weight 365 g  
 Operating diagram Page 97

**Contact Blocks**

X11 (1NO+1NC)	SDM•K9300X11	SDM•K9800X11	SDM•K9200X11
W02 (2NC)	SDM•K9300W02	SDM•K9800W02	SDM•K9200W02
X12P (1NO+2NC)	SDM•K9300X12P	SDM•K9800X12P	SDM•K9200X12P
X21P (2NO+1NC)	SDM•K9300X21P	SDM•K9800X21P	SDM•K9200X21P
W03P (3NC)	SDM•K9300W03P	SDM•K9800W03P	SDM•K9200W03P

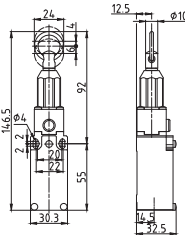
# Safety Limit Switches **SM/SDM\_K**

## Pull wire without reset for simple stop - Metal casing - IP66

**Electrical connection:**

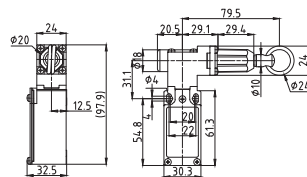
Replace the symbol “●” with the number of the thread desired  
**1:** Cable gland PG 13.5  
**2:** Cable gland 1/2” NPT (with adapter)  
**3:** Cable gland PG 11  
**4:** Cable gland M16 x 1,5  
**5:** Cable gland M20 x 1,5  
**7:** M12 5 poles connector  
**8:** M12 8 poles connector

**K96 Pull wire without reset for simple stop**



Min. forces Initial 60N, Final 80N (90N ⊖)  
 Weight 220 g  
 Operating diagram Page 97

**K9000 Pull wire without reset for simple stop**



Min. forces Initial 65N, Final 85N (95N ⊖)  
 Weight 265 g  
 Operating diagram Page 97

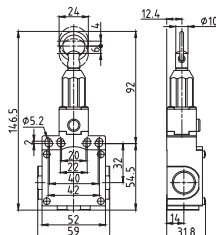
**Contact Blocks**

<b>X11</b> (1NO+1NC)	SM•K96X11	SM•K9000X11
<b>W02</b> (2NC)	SM•K96W02	SM•K9000W02
<b>X12P</b> (1NO+2NC)	SM•K96X12P	SM•K9000X12P
<b>X21P</b> (2NO+1NC)	SM•K96X21P	SM•K9000X21P
<b>W03P</b> (3NC)	SM•K96W03P	SM•K9000W03P

**Electrical connection:**

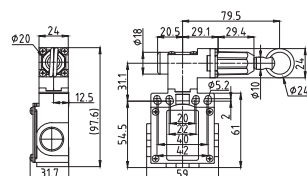
Replace the symbol “●” with the number of the thread desired  
**1:** Cable gland PG 13.5  
**2:** Cable gland 1/2” NPT (with adapter)  
**3:** Cable gland PG 11  
**4:** Cable gland M16 x 1,5  
**5:** Cable gland M20 x 1,5

**K96 Pull wire without reset for simple stop**



Min. forces Initial 60N, Final 80N (90N ⊖)  
 Weight 310 g  
 Operating diagram Page 97

**K9000 Pull wire without reset for simple stop**



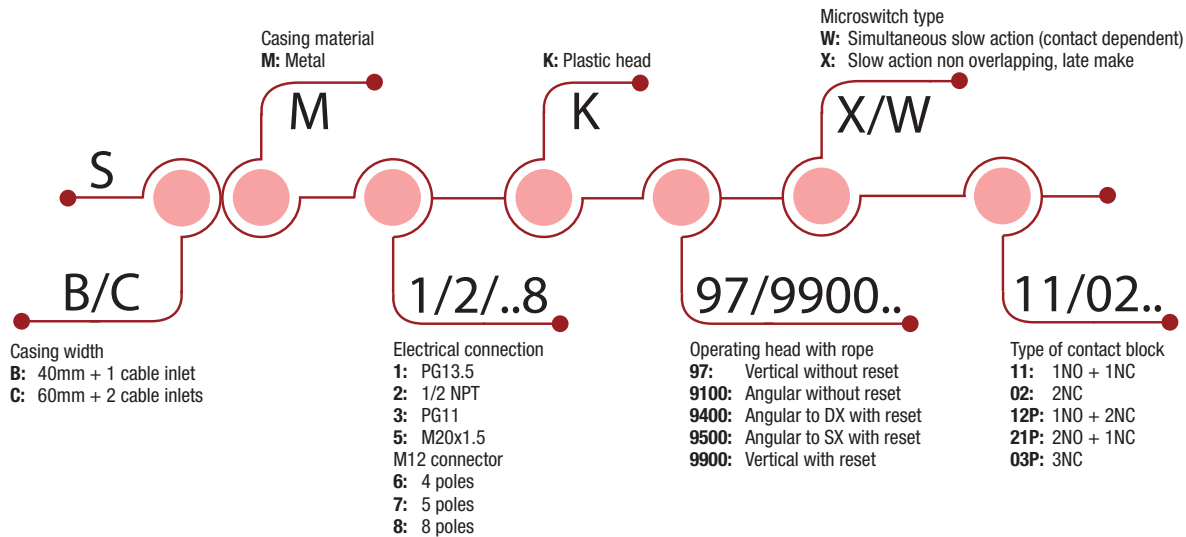
Min. forces Initial 65N, Final 85N (95N ⊖)  
 Weight 355 g  
 Operating diagram Page 97

**Contact Blocks**

<b>X11</b> (1NO+1NC)	SDM•K96X11	SDM•K9000X11
<b>W02</b> (2NC)	SDM•K96W02	SDM•K9000W02
<b>X12P</b> (1NO+2NC)	SDM•K96X12P	SDM•K9000X12P
<b>X21P</b> (2NO+1NC)	SDM•K96X21P	SDM•K9000X21P
<b>W03P</b> (3NC)	SDM•K96W03P	SDM•K9000W03P

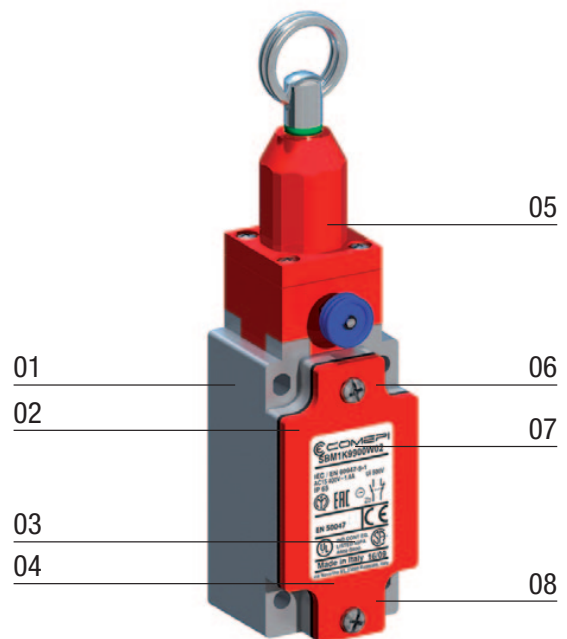
## Safety Limit Switches with rope

**APPROVALS:** UL 508 / CSA C22-2 N. 14



## HOW IS IT MADE?

- 01 Casing**
  - SBM with dimensions acc. to EN 50041
- 02 Mounting the casing**
  - 2 x M5 screws on top part for SBM series
  - 2 or 4 x M5 screws on top part for SCM series
- 03 Contact Block**
  - Positive opening operation
  - Slow action contacts
  - Contacts are electrically separated
- 04 Connecting terminals**
  - Block of 2 contacts: M3.5 (+, -) pozidriv 2 screws
  - Block of 3 contacts: M3 (+, -) screws
  - Screw head with captive cable clamp
  - Markings conform with IEC 60947-1, IEC 60947-5-1 standard
- 05 Operating heads**
  - Straight
  - 90° right
  - 90° left
- 06 Reset**
  - Manual reset button for emergency stop
- 07 Cover**
  - 2 screws 3 pozidriv 1 for SBM series
  - 4 screws 3 pozidriv 1 for SCM series
- 08 Electrical connection**
  - 1 x threaded cable inlet suitable for cable gland (SBM)
  - 3 x threaded cable inlets suitable for cable gland (SCM)



## Safety Limit Switches with rope - Description

### APPLICATIONS

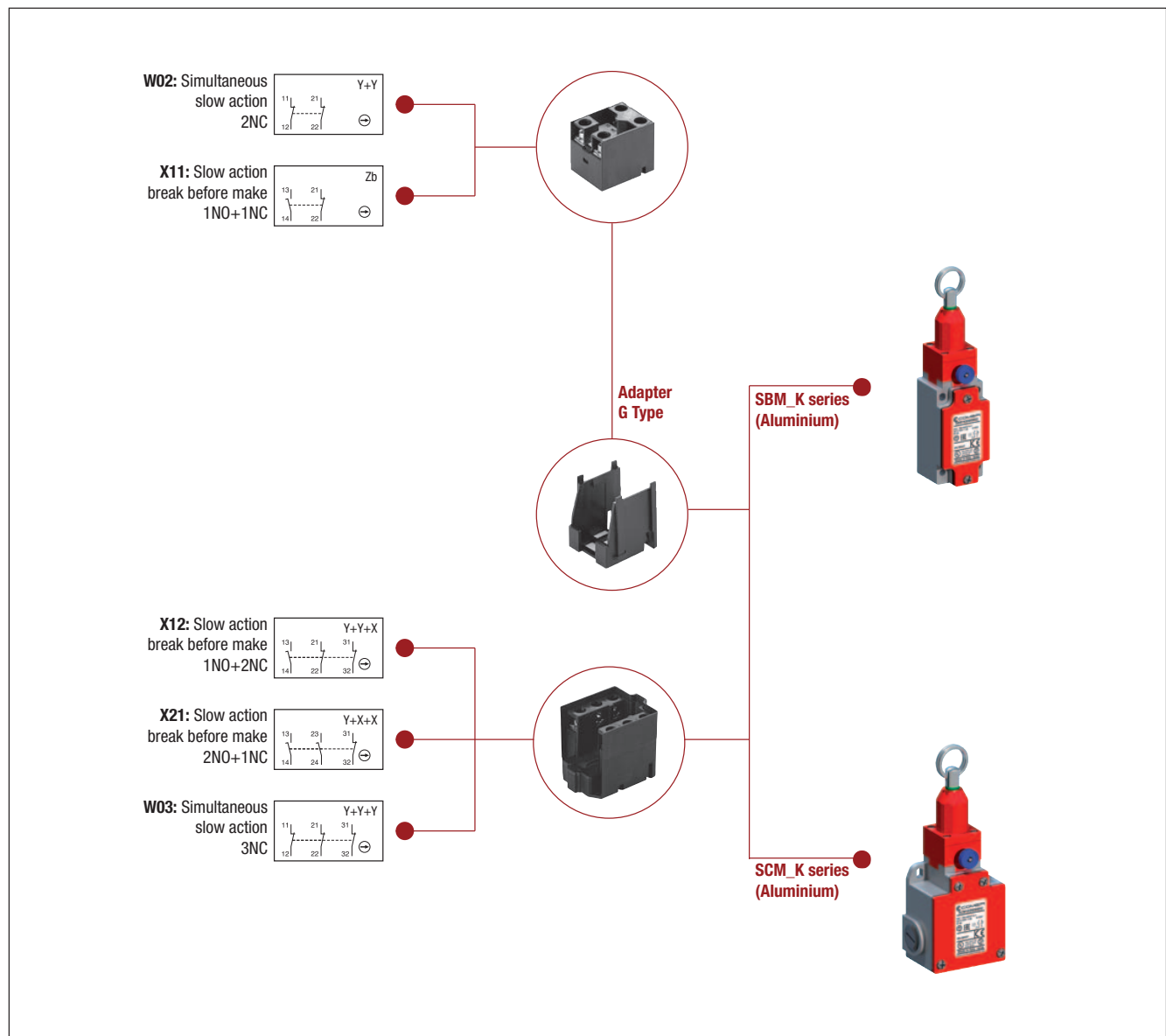
Easy to use, the limit switches for safety applications with rope for simple and emergency stop offer specific qualities:

- Capability for strong current switching (conventional thermal current 10 A).
- Contact blocks with positive opening operation of the "N.C." normally closed contact(s) (symbol  $\ominus$ ).
- Electrically separated contacts.
- Precision on operating positions (consistency).
- Immunity to electromagnetic disturbances.

The use of the Comepi pull wire safety switches allows you to create perimeter protections of the machines, thus reducing the need to install sever emergency stop stations in different points of the machine. They comply with the requirements of European Directives (Low Voltage and Machines Directive) and are conform to European and international standards.

### DESCRIPTION

SBM/SCM series are realized in aluminium material, therefore they are mechanically more resistant and three times lighter than the ones in zinc alloy. All metal limit switches have a degree of protection IP66.



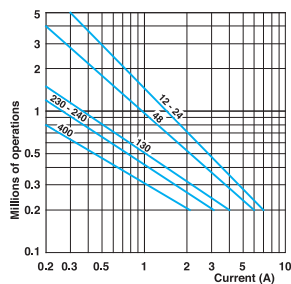
## Safety Limit Switches with rope - Technical Data

	<b>SBM / SCM Series</b>	
<b>Standards</b>	IEC 60947-5-1, EN 60947-5-1 EN 60947-5-5 (modelli con riarmo manuale)	
<b>Certifications - Approvals</b>	UL - CSA - IMQ - EAC - CCC	
<b>Air temperature</b> near the device		
– during operation	°C	– 25 ... + 70
– for storage	°C	– 30 ... + 80
<b>Mounting positions</b>	All positions are authorized	
<b>Protection against electrical shocks</b> (acc. to IEC 61140)	Class I	
<b>Degree of protection</b> (according to IEC 60529 and EN 60529)	IP 66	

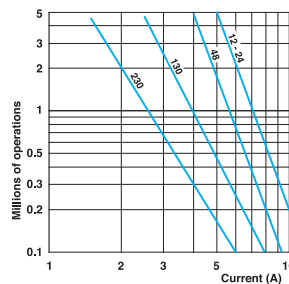
### Electrical Data

<b>Rated insulation voltage <math>U_i</math></b> - according to IEC 60947-1 and EN 60947-1 - according to UL 508 and CSA C22-2 n° 14	500 V (degree of pollution 3) (400 V for contacts type X12P, X21P, W03P) A 600, Q 600 (A 300, Q 300 for SM/SDM series and contacts type X12P, X21P, W03P)		
<b>Rated impulse withstand voltage <math>U_{imp}</math></b> (according to IEC 60947-1 and EN 60947-1)	kV	6	
<b>Conventional free air thermal current <math>I_{th}</math></b> (according to IEC 60947-5-1) $\theta < 40$ °C	A	10	
<b>Short-circuit protection</b> $U_e < 500$ V a.c. - gG (gl) type fuses	A	10	
<b>Rated operational current</b>			
$I_e$ / AC-15 (according to IEC 60947-5-1)	24 V - 50/60 Hz	A	10
	120 V - 50/60 Hz	A	6
	400 V - 50/60 Hz	A	4 (1.8A for contacts type X12, X21, W03)
$I_e$ / DC-13 (according to IEC 60947-5-1)	24 V - d.c.	A	6 (2.8A for contacts type X12, X21, W03)
	125 V - d.c.	A	0.55
	250 V - d.c.	A	0.4 (0.27A for contacts type X12, X21, W03)
<b>Switching frequency</b>	Cycles/h	3600	
<b>Load factor</b>		0.5	
<b>Resistance between contacts</b>	m $\Omega$	25	
<b>Connecting terminals</b>	M3.5 (+, -) pozidriv 2 screw with cable clamp (M3 for 3 poles contacts type)		
<b>Terminal for protective conductor</b>	M3.5 (+, -) pozidriv 2 screw with cable clamp		
<b>Recommended tightening torque</b>			
Cover	<b>Plastic</b> 0,5Nm, max 0,8	<b>Metal</b> 0,8Nm, max 0,9	
Head	0,5Nm, max 0,8	0,8Nm, max 0,9	
Microswitch	0,8Nm, max 0,9	0,8Nm, max 0,9	
<b>Connecting capacity</b>	1 or 2 x mm <sup>2</sup>	0.34 ... 2.5 (0.34... 1.5 for 3 poles contacts type)	
<b>Terminal marking</b>	According to IEC 60947-5-1		
<b>Mechanical durability</b>	500.000 operations		
<b>Electrical durability</b> (according to IEC 60947-5-1)	Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)		
<b>B10d</b>	1 million of operations		

AC-15 - Snap action



AC-15 - Slow action



DC-13	Snap action	Slow action
	Power breaking for a durability of 5 million operating cycles	
Voltage	24 V	12 W
Voltage	48 V	9 W
Voltage	110 V	6 W

## Safety Limit Switches with rope - Technical Data

### Technical data approved by IMQ

<b>Standards</b>	Devices conform with international IEC 60947-5-1 and European EN 60947-5-1 standards	
<b>Degree of protection</b>	IP 66	
<b>Rated insulation voltage <math>U_i</math></b>	500 V (degree of pollution 3) (400 V for contacts type X12P, X21P, W03P)	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	6 kV	
<b>Conventional free air thermal current <math>I_{th}</math></b>	10 A	
<b>Short-circuit protection - gG (gl) type fuses</b>	10 A	
<b>Rated operational current</b>		
$I_e$ / AC-15	24 V - 50/60 Hz	10 A
	400 V - 50/60 Hz	4 A (1.8A for contacts type X12, X21, W03)
$I_e$ / DC-13	24 V - d.c.	6 A (2.8A for contacts type X12, X21, W03)
	125 V - d.c.	0,55 A
	250 V - d.c.	0.4 A (0.27A for contacts type X12, X21, W03)

### Technical data approved by UL

<b>Standards</b>	Devices conform with UL 508
<b>Contact blocks type X11, Y11, W02</b>	A600, Q600
<b>Utilization categories</b>	(A300, Q300 when installed in SM/SDM series)
<b>Contact blocks type X12, X21, W03</b>	A600, Q600
<b>Utilization categories</b>	A600, Q600
<b>Contact blocks type X12P, X21P and W03P</b>	A300, Q300
<b>Utilization categories</b>	A300, Q300

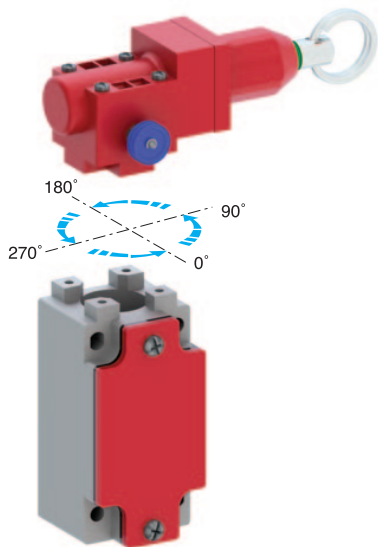
Use 60/75°C copper (Cu) conductor only. Wire rages 14-18 AWG stranded or solid. The terminal tightening torque of 7 lbs-in / 0.78 Nm. Suitable for conduit connection only with use of adapter sleeve optionally provided or recommended by the manufacturer.

For the complete list of approved products, contact our technical department

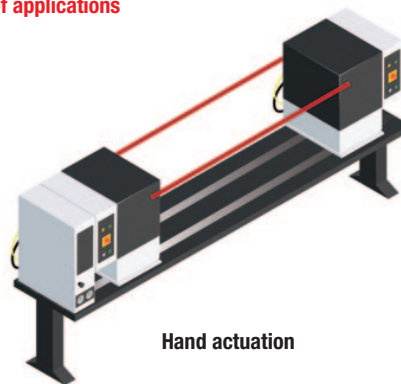
## IMPLEMENTATION

### Operating head orientation

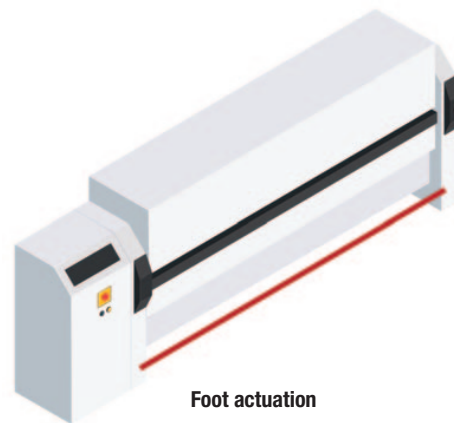
The head can be rotated each 90°.  
Recommended tightening torque 0,5 Nm (max 0,8 Nm).



### Examples of applications



Hand actuation



Foot actuation



### Download

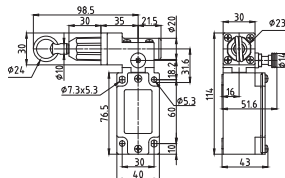
Instruction sheet – Pull wire safety limit switches

# Safety Limit Switches **SBM/SCM\_K**

## Pull wire with reset for emergency stop - Metal casing - IP66

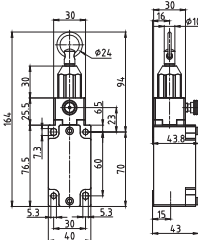
**Electrical connection:**  
 Replace the symbol "•" with the number of the thread desired  
 1: Cable gland PG 13.5  
 2: Cable gland 1/2" NPT  
 5: Cable gland M20 x 1,5

**K9500 Pull wire with reset for emergency stop**



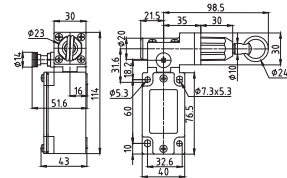
Min. forces Initial 150N, Final 215N (230N ⊖)  
 Weight 320 g  
 Operating diagram Page 97

**K9900 Pull wire with reset for emergency stop**



Min. forces Initial 120N, Final 160N (170N ⊖)  
 Weight 250 g  
 Operating diagram Page 97

**K9400 Pull wire with reset for emergency stop**



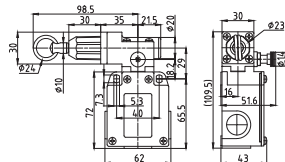
Min. forces Initial 150N, Final 215N (230N ⊖)  
 Weight 320 g  
 Operating diagram Page 97

**Contact Blocks**

<b>X11</b> (1NO+1NC)	SBM•K9500X11	SBM•K9900X11	SBM•K9400X11
<b>W02</b> (2NC)	SBM•K9500W02	SBM•K9900W02	SBM•K9400W02
<b>X12</b> (1NO+2NC)	SBM•K9500X12	SBM•K9900X12	SBM•K9400X12
<b>X21</b> (2NO+1NC)	SBM•K9500X21	SBM•K9900X21	SBM•K9400X21
<b>W03</b> (3NC)	SBM•K9500W03	SBM•K9900W03	SBM•K9400W03

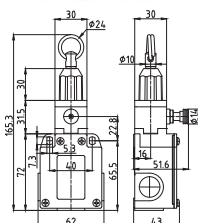
**Electrical connection:**  
 Replace the symbol "•" with the number of the thread desired  
 1: Cable gland PG 13.5  
 2: Cable gland 1/2" NPT  
 5: Cable gland M20 x 1,5

**K9500 Pull wire with reset for emergency stop**



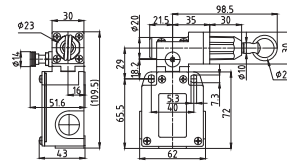
Min. forces Initial 150N, Final 215N (230N ⊖)  
 Weight 345 g  
 Operating diagram Page 97

**K9900 Pull wire with reset for emergency stop**



Min. forces Initial 120N, Final 160N (170N ⊖)  
 Weight 275 g  
 Operating diagram Page 97

**K9400 Pull wire with reset for emergency stop**



Min. forces Initial 150N, Final 215N (230N ⊖)  
 Weight 345 g  
 Operating diagram Page 97

**Contact Blocks**

<b>X11</b> (1NO+1NC)	SCM•K9500X11	SCM•K9900X11	SCM•K9400X11
<b>W02</b> (2NC)	SCM•K9500W02	SCM•K9900W02	SCM•K9400W02
<b>X12</b> (1NO+2NC)	SCM•K9500X12	SCM•K9900X12	SCM•K9400X12
<b>X21</b> (2NO+1NC)	SCM•K9500X21	SCM•K9900X21	SCM•K9400X21
<b>W03</b> (3NC)	SCM•K9500W03	SCM•K9900W03	SCM•K9400W03

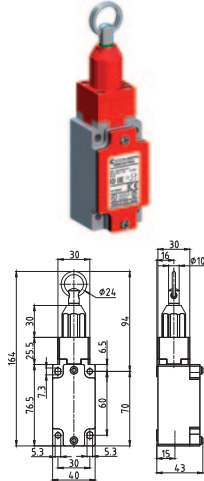
# Safety Limit Switches **SBM/SCM\_K**

## Pull wire without reset for simple stop - Metal casing - IP66

**Electrical connection:**

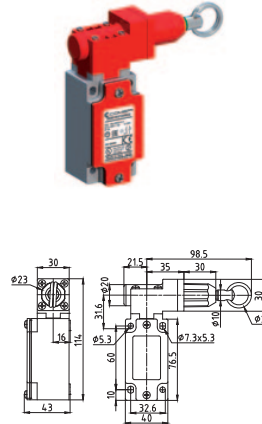
Replace the symbol “•” with the number of the thread desired  
**1:** Cable gland PG 13.5  
**2:** Cable gland 1/2” NPT  
**5:** Cable gland M20 x 1,5

**K97 Pull wire without reset for simple stop**



Min. forces Initial 120N, Final 160N (170N ⊖)  
 Weight 240 g  
 Operating diagram Page 97

**K9100 Pull wire without reset for simple stop**



Min. forces Initial 150N, Final 215N (230N ⊖)  
 Weight 310 g  
 Operating diagram Page 97

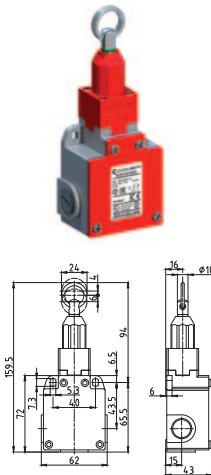
**Contact Blocks**

<b>X11</b> (1NO+1NC)	SBM•K97X11	SBM•K9100X11
<b>W02</b> (2NC)	SBM•K97W02	SBM•K9100W02
<b>X12</b> (1NO+2NC)	SBM•K97X12	SBM•K9100X12
<b>X21</b> (2NO+1NC)	SBM•K97X21	SBM•K9100X21
<b>W03</b> (3NC)	SBM•K97W03	SBM•K9100W03

**Electrical connection:**

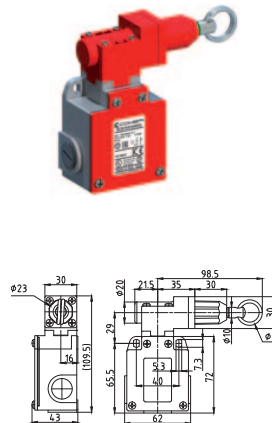
Replace the symbol “•” with the number of the thread desired  
**1:** Cable gland PG 13.5  
**2:** Cable gland 1/2” NPT  
**5:** Cable gland M20 x 1,5

**K97 Pull wire without reset for simple stop**



Min. forces Initial 120N, Final 160N (170N ⊖)  
 Weight 265 g  
 Operating diagram Page 97

**K9100 Pull wire without reset for simple stop**

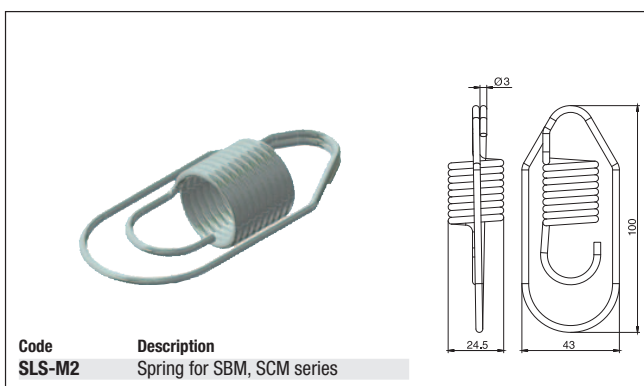
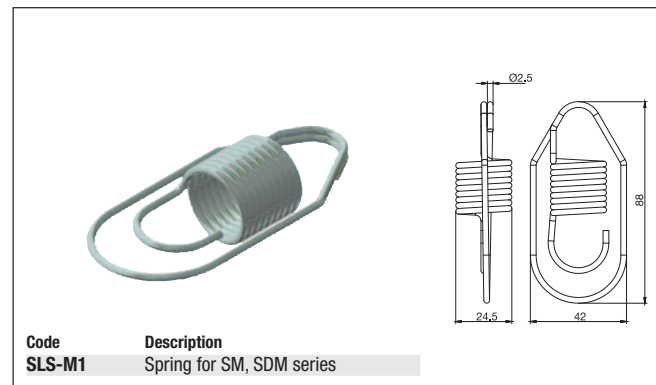
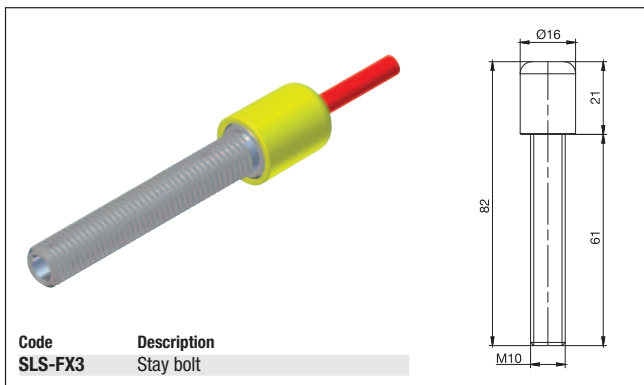
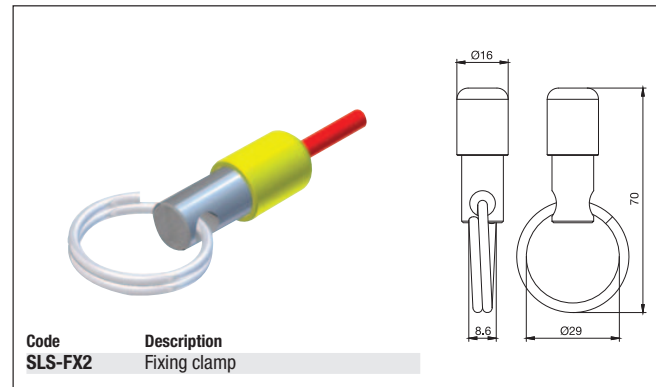
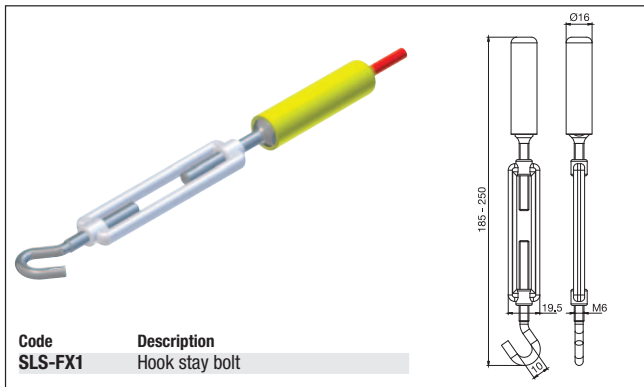
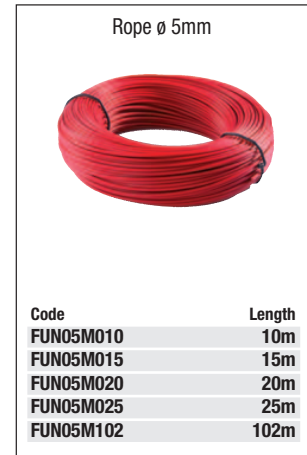
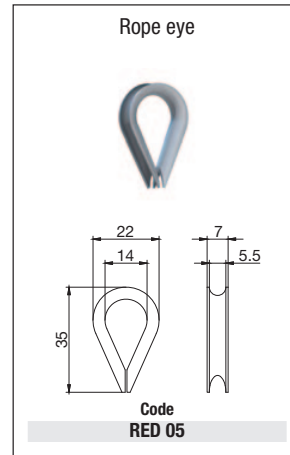
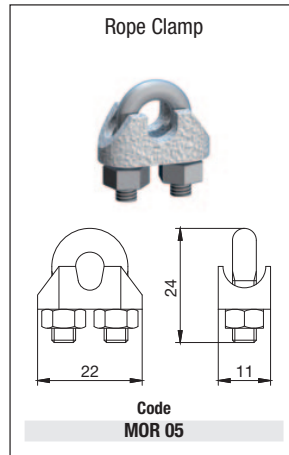
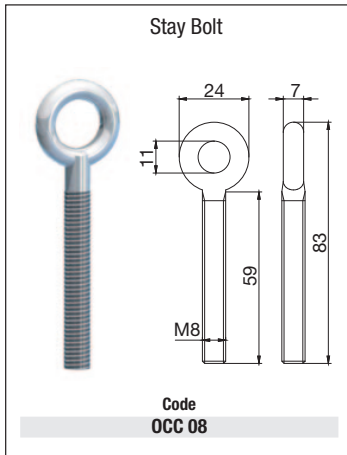


Min. forces Initial 150N, Final 215N (230N ⊖)  
 Weight 335 g  
 Operating diagram Page 97

**Contact Blocks**

<b>X11</b> (1NO+1NC)	SCM•K97X11	SCM•K9100X11
<b>W02</b> (2NC)	SCM•K97W02	SCM•K9100W02
<b>X12</b> (1NO+2NC)	SCM•K97X12	SCM•K9100X12
<b>X21</b> (2NO+1NC)	SCM•K97X21	SCM•K9100X21
<b>W03</b> (3NC)	SCM•K97W03	SCM•K9100W03

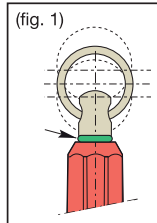
## Safety Limit Switches with rope - Accessories



## Safety Limit Switches with rope

### INSTALLATION INSTRUCTIONS

(fig. 1)



In order to obtain the correct operation of the device, please follow the following instructions.

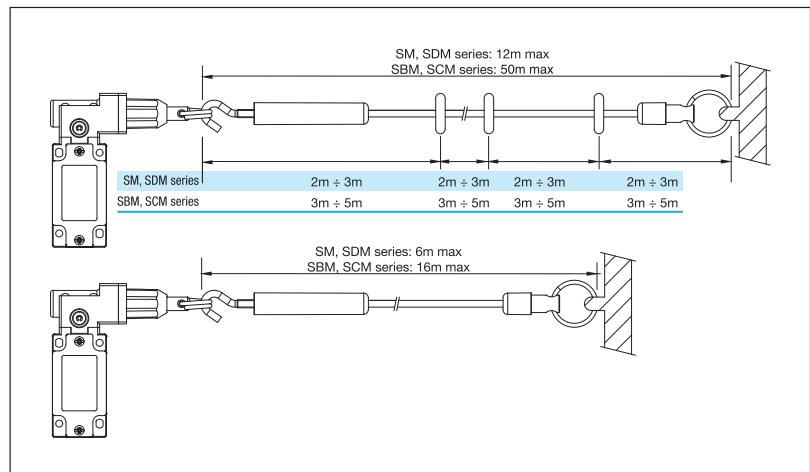
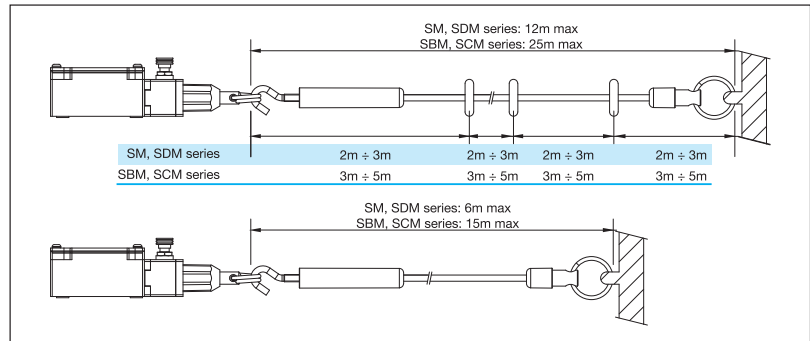
1. Install the switch and secure the fixed end of the rope. Apply tension to the extent the green O-ring is visible and the bottom is flush with the end of the red housing. (Fig. 1).

2. Pull the reset pommel in order to close the safety contacts of the limit switch.
3. The contacts inside the limit switch will change their position whenever the rope is pulled or loose its tension.
4. Check the correct operation of the rope switch before you start the machine and periodically.

Performing the role of worker protection, improper installation or tampering with safety devices can cause serious injury to persons.

The installation must therefore be performed in accordance with local legislation and only by authorized personnel.

For any question about CE declaration of conformity or for any information and assistance, please contact our technical department





# ELECTRICAL COMPONENTS

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 www.itcproducts.com  
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 Richmond Hill, ON L4B 1E4



DIN Rail



DIN Rail Accessories



Non-Metallic Enclosures



Hinged Enclosures



Thermal Management



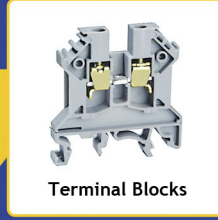
PANEL Lighting



Multipole Connectors



Compact IP68 Connectors



Terminal Blocks



Terminal Strips



22.5mm Pushbuttons



LED Indicators



Control Stations



Limit Switches



Micro Limit Switches



Safety Switches



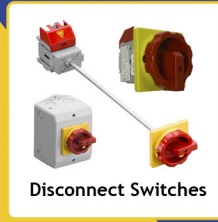
Foot Switches



Circuit Breakers



IEC Contactors



Disconnect Switches



Midget and CC Fuse Holders



Tower Lights



Power Continuity



Ferrules



Colour Coded Lugs



Crimp Terminals



Termination Kits



Cable Glands



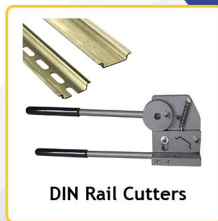
Thread Adapters



Cable Entry Systems



Wire Management



DIN Rail Cutters



Assembly Tables



Cutting & Stripping



Crimping Tools



Hole Cutting & Punching Tools

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