

Plastic-bodied Rope Pull switch S/Si

Protection class IP 65



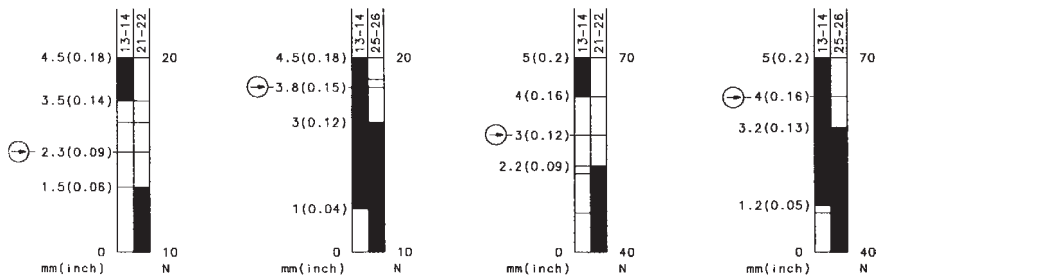
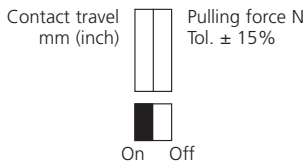
Metal-bodied Rope Pull switch S/Si

Protection class IP 65



Designation
Part number
Circuit diagram
⊕ Forced disconnect to IEC 947-5-1 chapter 3
Za: not galvanically separated contacts
Zb: galvanically separated contacts
Slow make & break/snap-action
Internal seal (iw)/external seal (w)

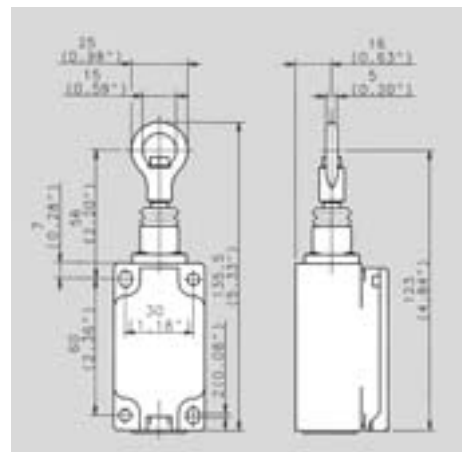
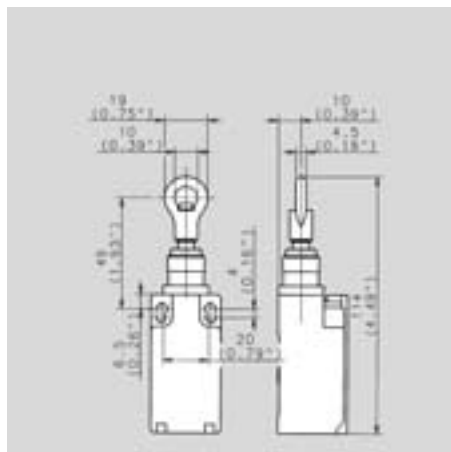
Si-U1Z	SiL-UV1Z	SEK-U1Z	SiEK-UV1Z
601.3812.075	601.3832.076	601.1811.133	601.1831.134
⊕ Zb	⊕ Zb	⊕ Zb	⊕ Zb
●/-	●/-	●/-	●/-
-	-	-	-



Voltage	max.
Permanent current	max.
In-rush current complies with standards	
Switching frequency	max.
Mechanical life – number of switching actions	
Operating temperature	min./max.
Approvals	
Cable entry	
Weight	
Delivery: ex-stock/built to order	

Si-U1Z	SiL-UV1Z	SEK-U1Z	SiEK-UV1Z
500 V AC	500 V AC	500 V AC	500 V AC
10 A	10 A	10 A	10 A
●	●	●	●
50/min.	50/min.	50/min.	50/min.
1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶
-30 °C/+80 °C	-30 °C/+80 °C	-30 °C/+80 °C	-30 °C/+80 °C
-22 °F/+176 °F	-22 °F/+176 °F	-22 °F/+176 °F	-22 °F/+176 °F
UL, CSA	UL, CSA	BG, UL, CSA	BG, UL, CSA
1 x M 20 x 1.5	1 x M 20 x 1.5	1 x M 20 x 1.5	1 x M 20 x 1.5
0.09 kg/0.20 lb	0.09 kg/0.20 lb	0.17 kg/0.37 lb	0.17 kg/0.37 lb
●/-	●/-	●/-	●/-

All dimensions in mm (inch)





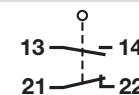
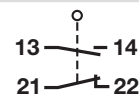
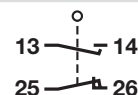
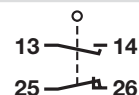
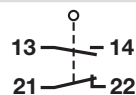
SEM2-U1Z
601.2811.029

SIEM2-UV1Z
601.2831.022

SIEM2-UV1Z Rast
601.2831.023

SD-U1
601.1411.856

SD-U1
611.1411.029



⊖ Zb

⊖ Zb

⊖ Zb

-

-

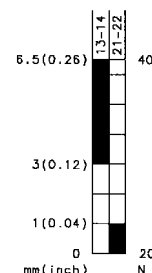
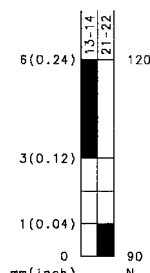
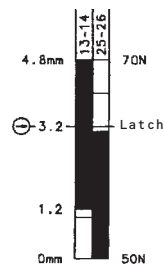
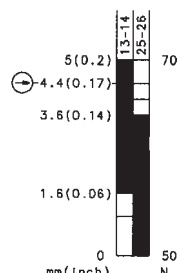
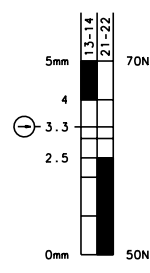
●/-

●/-

-

●/-

●/-



400 V AC
10 A

400 V AC
10 A

400 V AC
10 A

500 V AC
16 A

500 V AC
16 A

●

●

●

●

●

50/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

50/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

17/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

50/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

50/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

BG, UL, CSA

BG, UL, CSA

BG, UL, CSA

UL, CSA

UL, CSA

1 x M 20 x 1.5
0.22 kg/0.49 lb

1 x M 20 x 1.5
0.22 kg/0.49 lb

1 x M 20 x 1.5
0.26 kg/0.57 lb

2 x M 20 x 1.5
0.33 kg/0.73 lb

2 x M 20 x 1.5
0.33 kg/0.73 lb

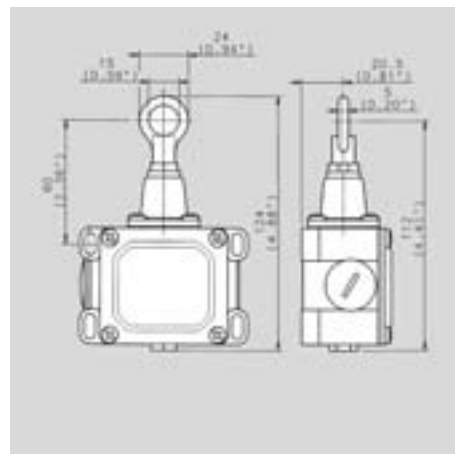
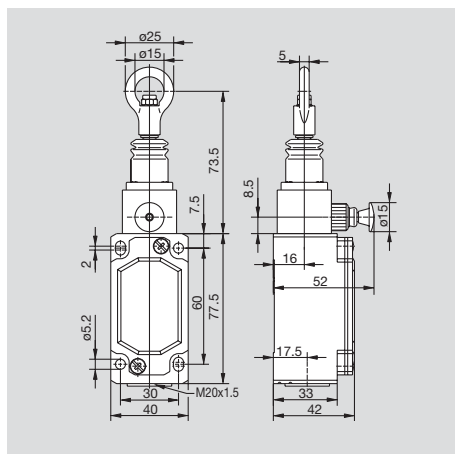
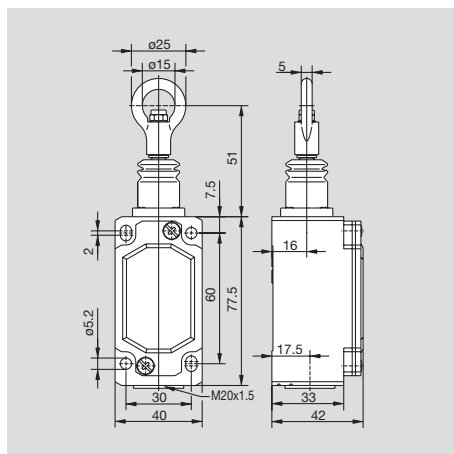
●/-

●/-

●/-

●/-

●/-



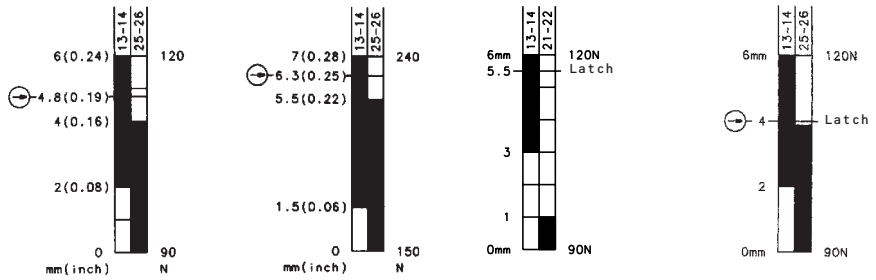
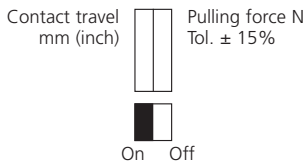
Metal-bodied Rope Pull switch S/Si

Protection class IP 65



Designation
Part number
Circuit diagram
⊕ Forced disconnect to IEC 947-5-1 chapter 3
Za: not galvanically separated contacts
Zb: galvanically separated contacts
Slow make & break/snap-action
Internal seal (iw)/external seal (w)

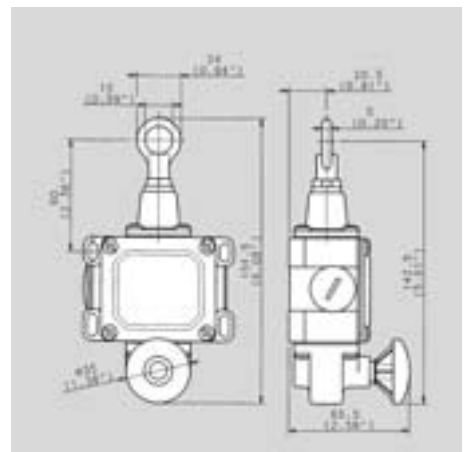
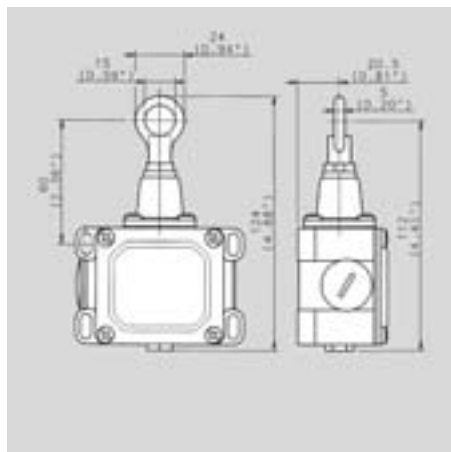
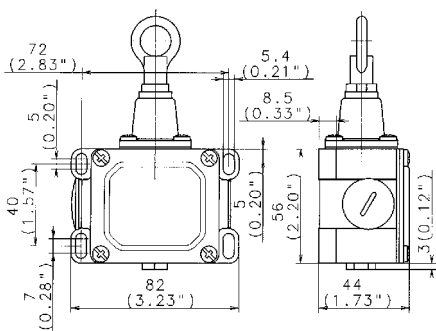
SiD-UV1Z	SiD-UV1Z	SD-U1	SiD-UV1Z Rast
601.1431.857	611.1431.022	601.1411.868	601.1431.869
⊕ Zb	⊕ Zb	-	⊕ Zb
●/-	●/-	●/-	●/-
-	-	●	●



Voltage	max.
Permanent current	max.
In-rush current complies with standards	
Switching frequency	max.
Mechanical life – number of switching actions	
Operating temperature	min./max.
Approvals	
Cable entry	
Weight	
Delivery: ex-stock/built to order	

400 V AC	400 V AC	500 V AC	400 V AC
16 A	16 A	16 A	16 A
●	●	●	●
50/min.	50/min.	20/min.	20/min.
1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶
-30 °C/+80 °C	-30 °C/+80 °C	-30 °C/+80 °C	-30 °C/+80 °C
-22 °F/+176 °F	-22 °F/+176 °F	-22 °F/+176 °F	-22 °F/+176 °F
UL, CSA	UL, CSA	UL, CSA	UL, CSA
2 x M 20 x 1.5	2 x M 20 x 1.5	2 x M 20 x 1.5	2 x M 20 x 1.5
0.33 kg/0.73 lb	0.33 kg/0.73 lb	0.49 kg/1.08 lb	0.49 kg/1.08 lb
●/-	●/-	●/-	●/-

All dimensions in mm (inch)



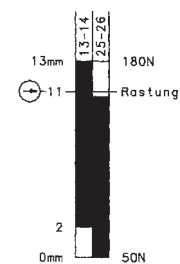
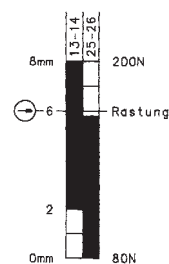
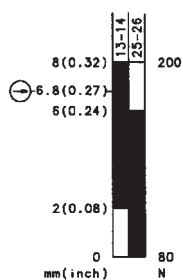
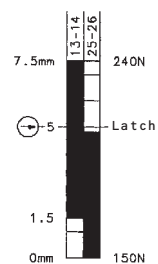
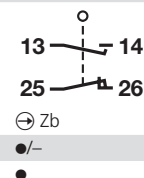
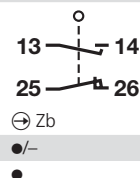
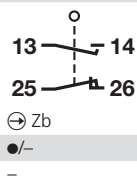
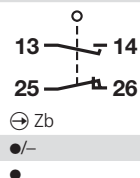


SID-UV1Z Rast
611.1431.060

SID-UV1Z
601.2431.877

SID-UV1Z Rast
601.2431.883

SID-UV1Z Rast
611.2431.050



400 V AC
16 A

500 V AC
16 A

500 V AC
16 A

500 V AC
16 A

20/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

50/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

20/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

20/min.
1 x 10⁶
-30 °C/+80 °C
-22 °F/+176 °F

UL, CSA

UL, CSA

UL, CSA

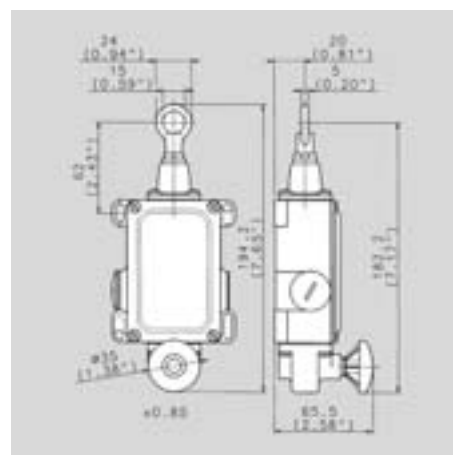
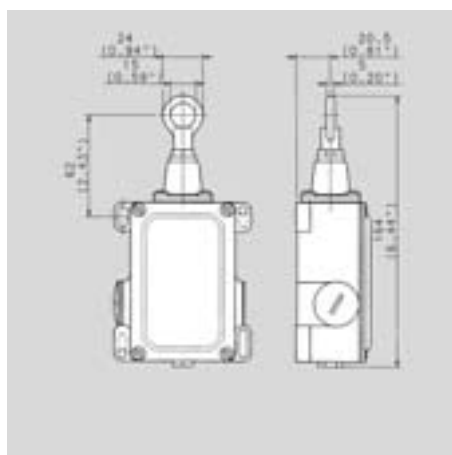
UL, CSA

2 x M 20 x 1.5
0.53 kg/1.17 lb

2 x M 20 x 1.5
0.47 kg/1.04 lb

2 x M 20 x 1.5
0.70 kg/1.54 lb

2 x M 20 x 1.5
0.64 kg/1.41 lb



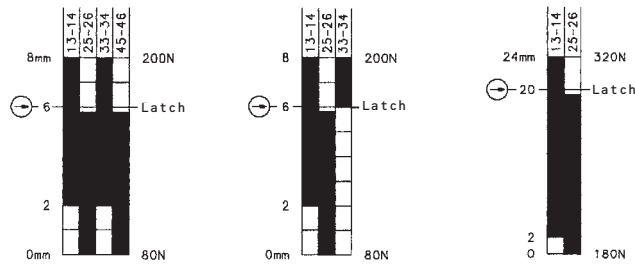
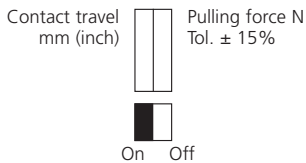
Metal bodied Rope Pull switches S/Si

Protection class IP 65



Designation
Part number
Circuit diagram
⊕ Forced disconnect to IEC 947-5-1 chapter 3
Za: not galvanically separated contacts
Zb: galvanically separated contacts
Slow make & break/snap-action
Internal seal (iw)/external seal (w)

SiD-UV2Z Rast	SiD-UV1Z/E1 Rast	SiN-UV1Z P-Rast
601.2441.907	611.2461.041	601.3531.367
●/-	●/-	●/-
●	●	●

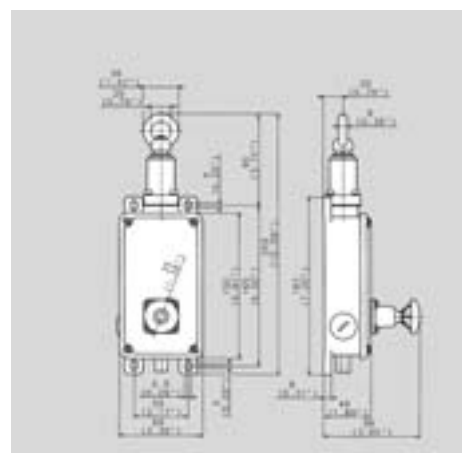
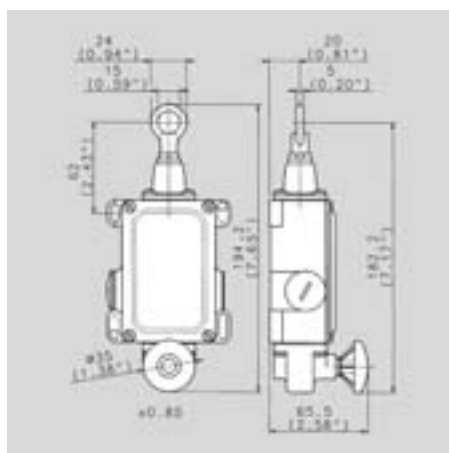


Voltage	max.
Permanent current	max.
In-rush current complies with standards	
Switching frequency	max.
Mechanical life – number of switching actions	
Operating temperature	min./max.
Approvals	
Cable entry	
Weight	
Delivery: ex-stock/built to order	

400 V AC	400 V AC	500 V AC
16 A	16 A	16 A
●	●	●
20/min.	20/min.	20/min.
1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶
-30 °C/+80 °C	-30 °C/+80 °C	-30 °C/+80 °C
-22 °F/+176 °F	-22 °F/+176 °F	-22 °F/+176 °F
UL, CSA	UL, CSA	UL, CSA
2 x M 20 x 1.5	2 x M 20 x 1.5	2 x M 20 x 1.5
0.70 kg/1.54 lb	0.70 kg/1.54 lb	1.30 kg/2.87 lb
●/-	●/-	●/-

500 V AC
16 A
●
20/min.
1 x 10 ⁶
-30 °C/+80 °C
-22 °F/+176 °F
UL, CSA
2 x M 20 x 1.5
1.30 kg/2.87 lb
●/-

All dimensions in mm (inch)

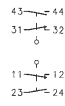
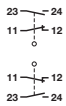




SI1-U2Z AK R-Rast
601.4735.001

SI1-U1Z/U1Z AK R-Rast
601.4735.025

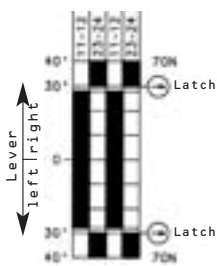
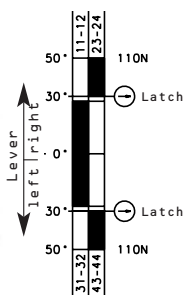
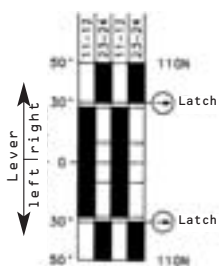
SI2-U2Z AK R-Rast
601.5735.002



⊕ Zb
●/-

⊕ Zb
●/-

⊕ Zb
●/-



250 V AC
10 A

250 V AC
10 A

500 V AC
10 A

10/min.
1 x 10⁶

10/min.
1 x 10⁶

10/min.
1 x 10⁶

-30 °C/+80 °C
-22 °F/+176 °F

-30 °C/+80 °C
-22 °F/+176 °F

-30 °C/+80 °C
-22 °F/+176 °F

UL, CSA

BG, UL, CSA

UL, CSA

1 x M 20 x 1.5
1.60 kg/3.53 lb

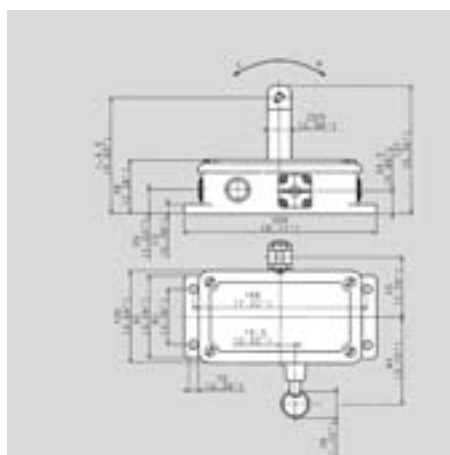
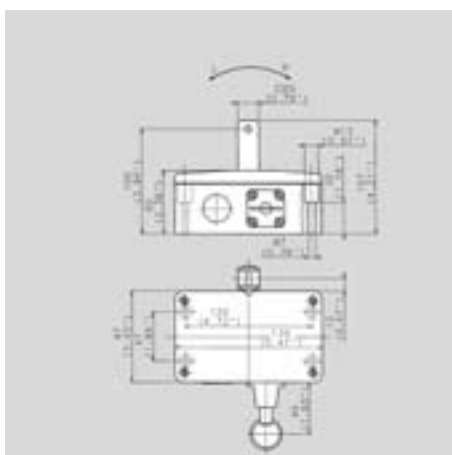
1 x M 20 x 1.5
1.60 kg/3.53 lb

3 x M 20 x 1.5
3.80 kg/8.38 lb

●/-

●/-

●/-



Rope Pull safety switches

SiRK

Plastic body
Two-sided spanning (max. 2x 75 m)
Protection class IP 65



Application

The SiRK rope pull safety switch has been developed for larger system spans in a corrosion free material. The SiRK can also be delivered with an indicator lamp.

Utilization

When larger machines or entire installations are to be protected, the emergency-stop command can be initiated from any point in the plant using rope-pull safety switches. This can be advantageous compared to individually mounted emergency-stop buttons when preventing injury to persons and damage to machinery. The SiRK can be adapted to suit a wide range of applications thanks to the individual selection of rope lengths and various mounting positions.

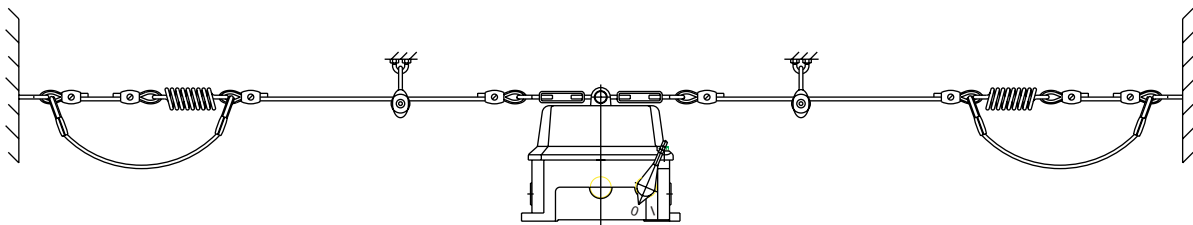
Construction

The plastic insulated body offers superior electrical protection for the user. The switching parts allow for wide range of multi-pole protective circuits. The switching mechanism has been constructed so that the switch remains in function even when the spring element has broken. Construction and function fulfil all requirements according to EN 418 and EN 60947-5-5.

Product characteristics

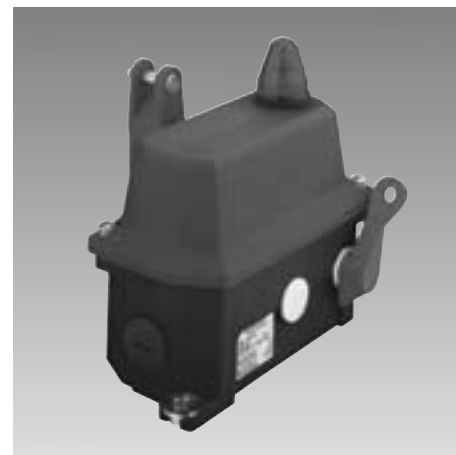
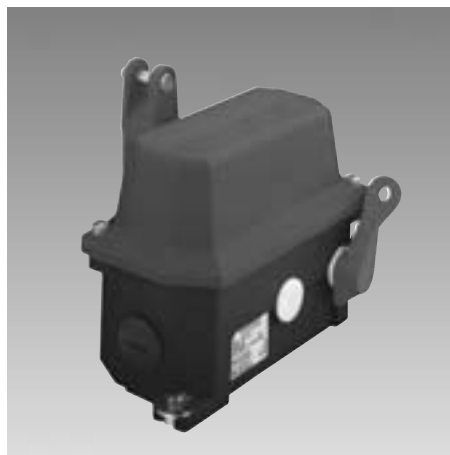
- Tamper-proof switching mechanism (EN 418)
- Automatic latching when pulled and by slack or broken rope
- Low actuating force
- Available with or without multi-voltage indicator lamp
- 6-pole terminal for daisy-chaining
- Maintenance-free construction
- Switching device simple to mount with 2 x M10 screws
- Enclosure lid simple to attach with 2 x M5 screws (captive)
- Protection class IP 65

System configuration



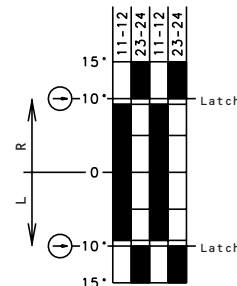
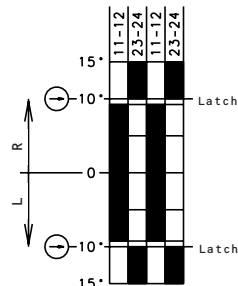
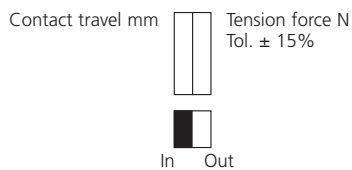
Switch	Contacts	Function	Voltage	Current
SiRK - U2Z R	2NC/2NO	Latch function	250 V	10 A
SiRK - U2Z R MLED	2NC/2NO	Latch function/indicator lamp*	250 V	10 A

* Indicator lamp for multiple voltages with additional 6-pole terminal for daisy-chaining.



Designation	
Part number	
Switching diagram	
⊕ positive break according to IEC 947-5-1 Chap. 3	
Zb: changeover contact is galvanically isolated	
Slow-action contact/snap-action contact	
Locking device	
Indicating lamp	

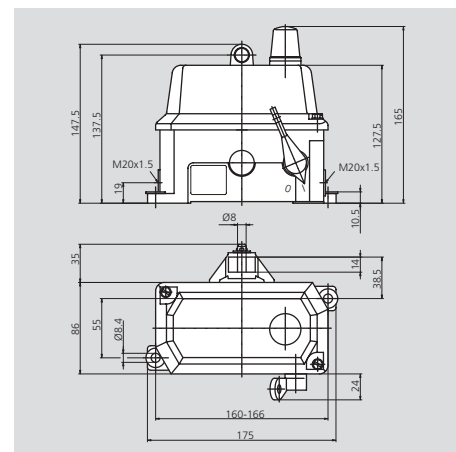
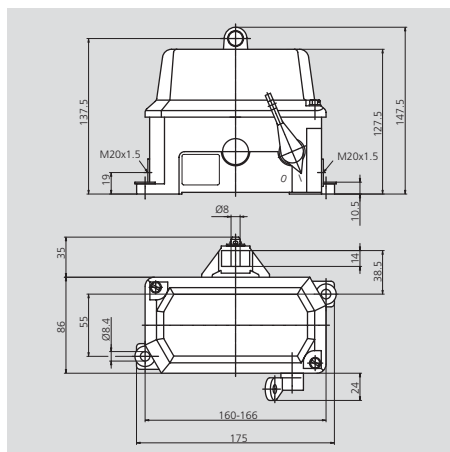
SIRK-U2Z R	SIRK-U2Z R MLED
601.5625.001	601.5625.002
⊕ Zb	⊕ Zb
●/-	●/-
●	●
-	●



Voltage	max.
Continuous current	max.
Making current, acc. to IEC 947-5-1 AC 15/DC 13	
Switching frequency	max.
Mech. operational life – number of switching cycles	
Ambient temperature	min./max.
Approvals	
Pending Approvals	
Cable inlet	
Weight	
Delivery: ex-stock/built to order	

250 V AC	250 V AC
10 A	10 A
●	●
30/min.	30/min.
1 x 10 ⁵	1 x 10 ⁵
-30 °C/+80 °C	-30 °C/+80 °C
-22 °F/+176 °F	-22 °F/+176 °F
BG, UL, CSA	BG, UL, CSA
2x M 20 x 1.5	2x M 20 x 1.5
0.8 kg/1.8 lb	0.9 kg/2 lb
●/-	●/-

All dimensions in mm





Bernstein SRM rope-pull switches

Forward thinking for safety solutions

For greater safety on the production line: Introduction

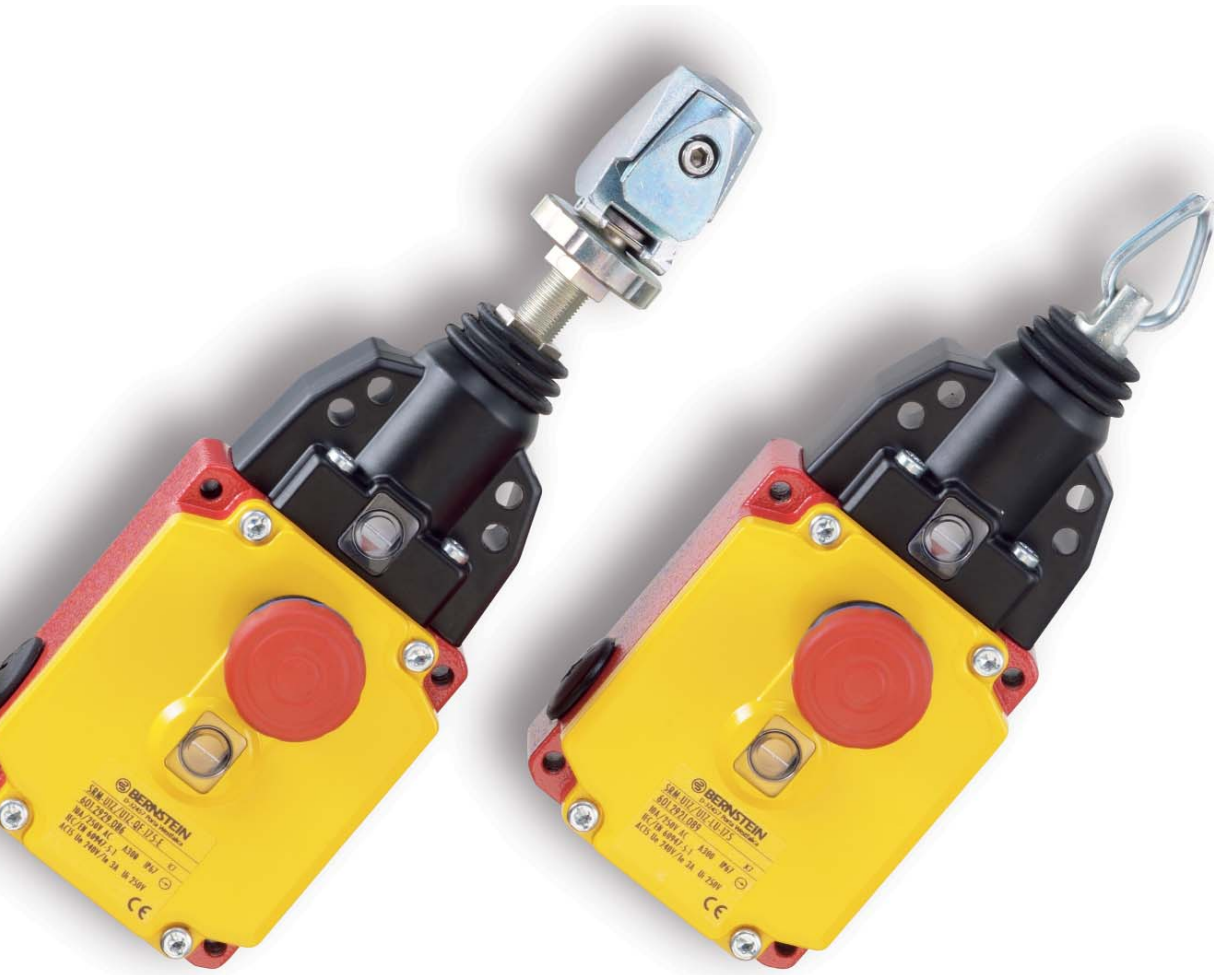
Whether on the production line or at the machine – when maximum safety in a company's production area is concerned, rope-pull safety switches provide a proven and reliable technical solution.

Now, with its new SRM range, Bernstein is showing that even the proven best can be improved – and not just in the detail. Because SRM rope-pull safety switches from Bernstein can be deployed anywhere, are easy to install, and very straightforward to use. And most important of all – they provide maximum safety when you need it.

A good safety solution is so simple

Whether a first-time installation or a refit – installing SRM rope-pull safety switches could not be easier – and the same applies in use.

- Easy to fasten due to hole template patterns common for most rope-pull safety switch models
- Flexible handling with three M20 x 1.5 cable entrances
- Faster, easier, and more economical structure with Quick-fix clamping head
- Large connection area makes for easy installation
- Straightforward to handle thanks to easy-to-read switching state display



A hand turn: Quick-Fix quick action clamping head



Everything to hand: The emergency palm button



Clear to view: Rope status display

Introducing the new Bernstein SRM rope-pull safety switch

Safety when you need it

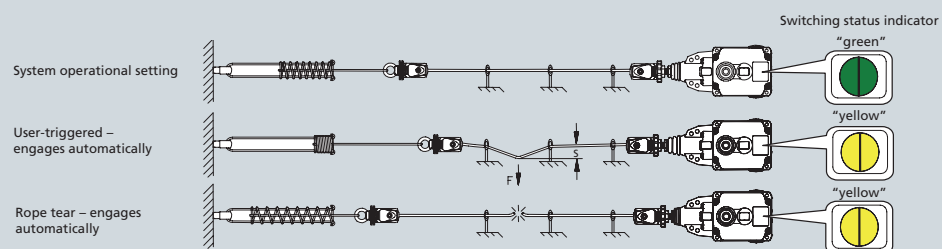
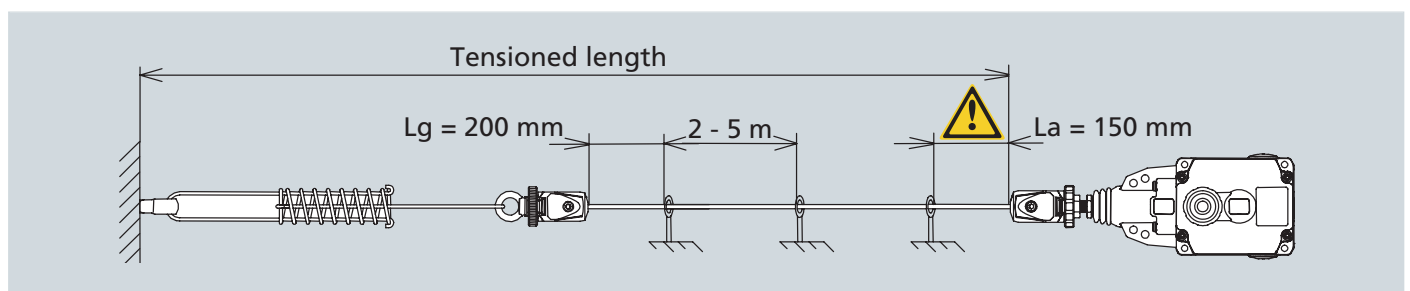
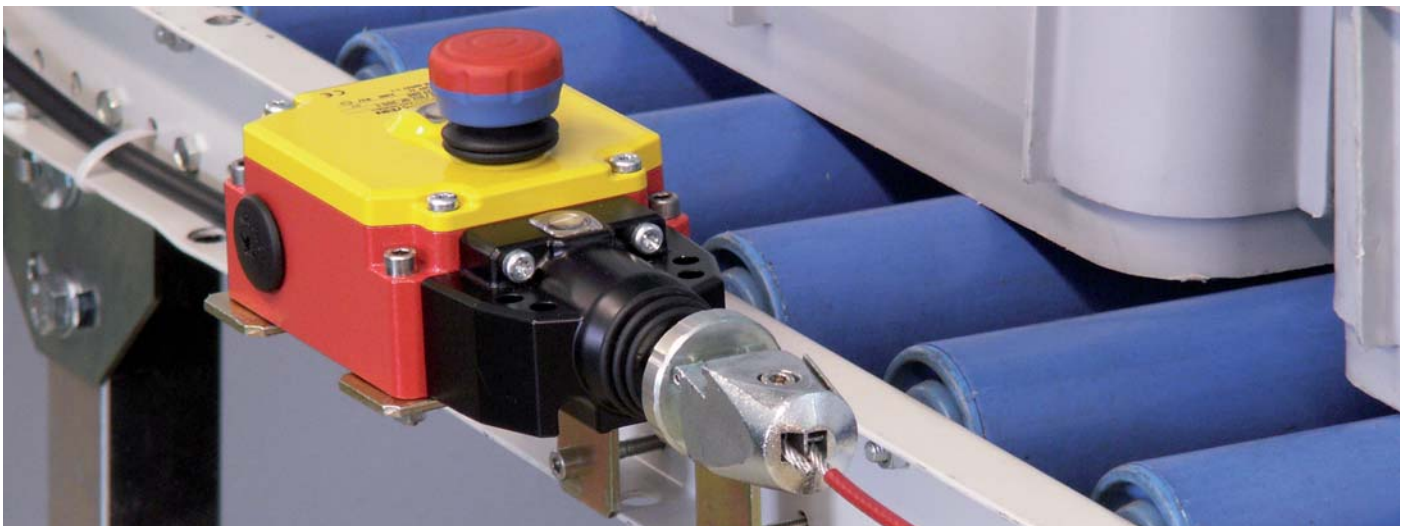
Bernstein SRM rope-operated safety switches comply with the highest safety requirements – even exceeding these in many aspects.

- Patented electronic advance malfunction monitoring for early detection of a change in the rope tension
- Rope status display allows correct setting and inspection
- Tamper-proofed with cover over the mechanical parts
- Connection area and mechanical components are separate for extra safety
- Now, even clearer with dual-function palm-button (emergency stop and pull release)
- Slow-action and snap functions with up to four direct openers and/or slow-action-close contacts
- Separate-action mounting switches

The weather-proof all-rounder at a fair price

The new SRM rope-pull safety switches also perform reliably in extreme conditions. This is due in particular to their extremely robust manufacturing process – which, moreover, thanks to their improved structure – does not cost the world.

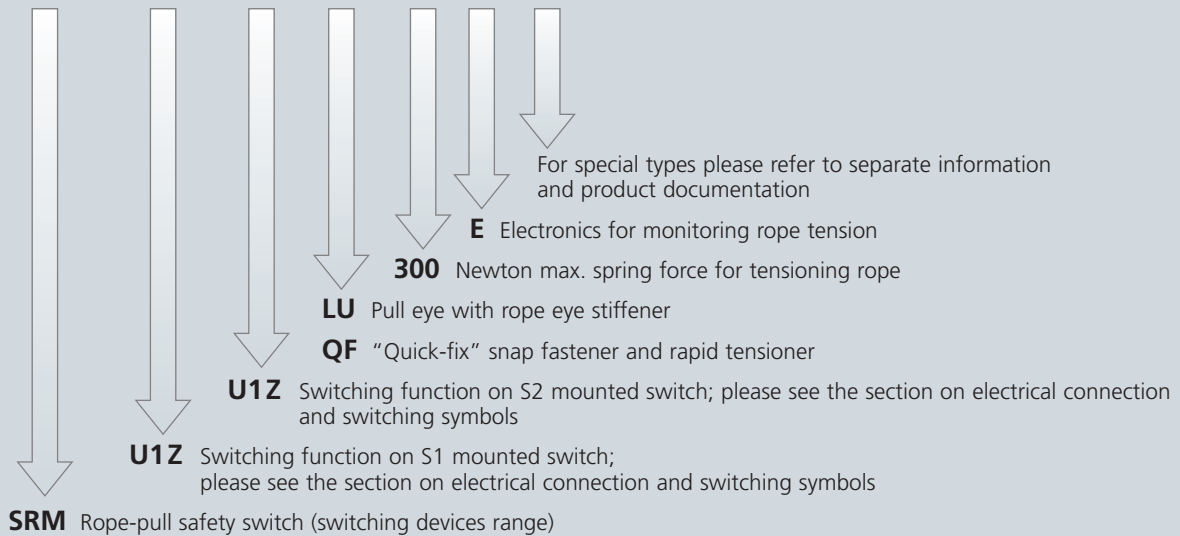
- Its rating under safety class IP67 means that it can be used for many applications
- Stable and durable metal housing
- Outer sleeve provides optimum protection of the tension bolt holder
- Also suitable for outdoor use
- Can be deployed at temperatures between $-30\text{ }^{\circ}\text{C}$ and $+80\text{ }^{\circ}\text{C}$



... and the switching status indicator

Schaltprogramm und Schaltsymbol					
Schaltglied	U1Z	SU1Z	A2Z	SA2Z	E2
Kontaktart	1 Öffner, 1 Schließer (Zb)	1 Öffner, 1 Schließer (Zb)	2 Öffner (Zb)	2 Öffner (Zb)	2 Schließer
Schaltsymbol					
Schaltprogramm	Schleichschaltglied	Sprungschaltglied	Schleichschaltglied	Sprungschaltglied	Schleichschaltglied
Schaltprogramm	<p>Die Angaben der Zugkraft sind vom verwendeten Typ abhängig. (SRM...175/SRM...300)</p> <p>■ Ein □ Aus</p> <p>Toleranzen: Schaltpunkt +/- 0,5 mm Betätigungskraft +/- 15 %</p>				
	 +6mm 175N/300N +4mm Rastung 0mm 133N/228N -4mm Rastung -6mm 91N/156N	 +6mm 175N/300N +5,7mm Rastung 0mm 133N/228N -4mm Rastung -6mm 91N/156N	 +6mm 175N/300N +5,7mm Rastung +4mm 0mm 133N/228N -4mm Rastung -6mm 91N/156N	 +6mm 175N/300N +4mm Rastung 0mm 133N/228N -4mm Rastung -6mm 91N/156N	 +6mm 175N/300N +4mm Rastung 0mm 133N/228N -4mm Rastung -6mm 91N/156N

The name is the identification
e.g. **SRM-U1Z/U1Z-QF-300-E-...**



Easy to use: Cable entrances...



... and large connection area



Optimum protection: the outer sleeve



 **BEP**
D-324
SRM-UTZ/UT
601.2929
10A/250V
IEC/EN

Further safety technology in the Bernstein range

Limit switches



- Encapsulated by metal and insulating material, with operator protection

Safety rope pull switches



- Insulating material housing

Emergency Stop button



- With rotation unlocking or key unlocking

Safety switches



- Encapsulated by insulating material with separate actuator



- Encapsulated by insulating material with separate actuator



- Metal housings with separate actuator



- Encapsulated by insulating material with integrated actuation



- Encapsulated by insulating material with integrated actuation



- Switching hinge SHS3 with integrated fine adjustment system

Safety interlocking switches



- Encapsulated by insulating material with separate actuator

Spring or magnetic locking



- Metal housings with separate actuator

Spring or magnetic locking

Safety relay



- Up to control category 4 according to EN 945-1

Safety sensors



- Safety light curtains, multi-beam light barrier

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