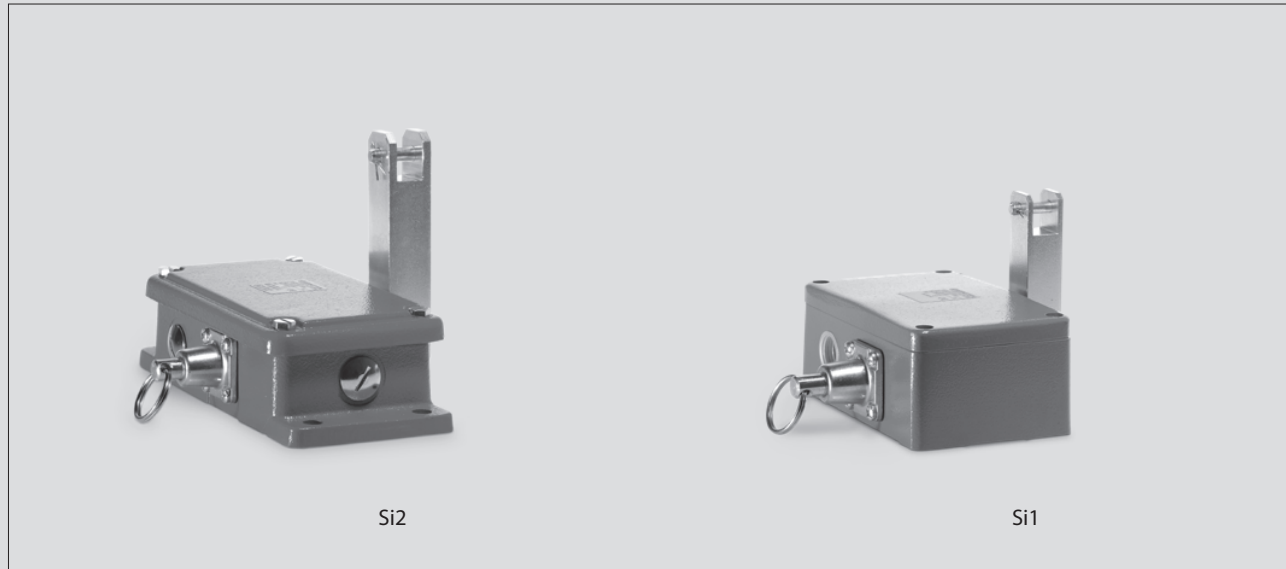


Double-Spanned Rope Pull Switches

Si1, Si2

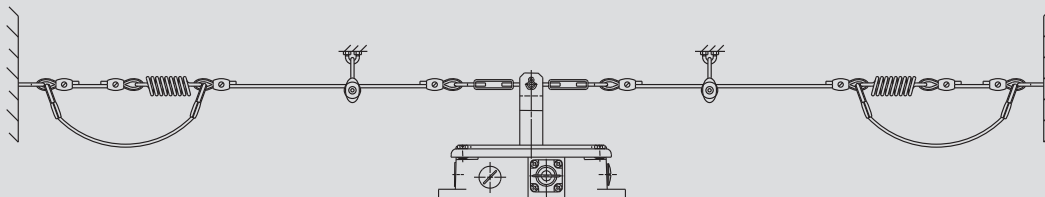
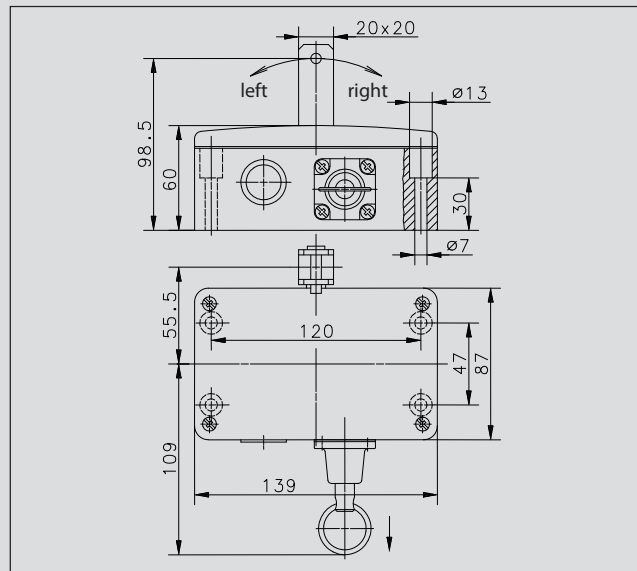


BERNSTEIN double-spanned rope pull switches (Si1 and Si2) are also used in emergency stop applications. When the cable is pulled the switching lever is deflected in the corresponding direction and the system shut down.

The switches are available in two metal versions, the Si1 and Si2.

These types of rope pull switch are ideally suited for applications with high temperature fluctuations and long cable spans. With their sturdy enclosure, the Si1 and Si2 are the perfect switches for harsh environments.

Two cables spanned in opposite directions are attached to the switching device. The countersprings are secured to the wall at the ends of the cables. Provided the change in temperature is the same at all points along the cable, the springs will effectively compensate for the change in cable length.



Product selection

Designation	Article number	Max. span length
SI1-U2Z AK R-RAST	6014735001	2 x 50 m
SI1-U1Z/U1Z AK R-RAST	6014735025	2 x 50 m
SI2-U2Z AK R-RAST	6015735002	2 x 50 m

Technical data	Si1	Si2
Electrical data		
Rated insulation voltage U_i	250 V AC	400 V AC
Rated operating voltage U_e	250 V	240 V
Conventional thermal current I_{the}	10 A	10 A
Utilisation category	AC-15, U_e / I_e 240 V / 3 A	AC-15, U_e / I_e 240 V / 3 A
Positive opening action 	as per IEC/EN 60947-5-1, Addendum K	as per IEC/EN 60947-5-1, Addendum K
Short-circuit protection	Fuse 6 A gL/gG	Fuse 10 A gL/gG
Protection class	I	I
Mechanical data		
Enclosure	Aluminium sand casting	Cast iron
Cover	Aluminium sand casting	Cast iron
Actuation	Lever (GRP)	Lever (GRP)
Ambient temperature	- 30°C to + 80°C	- 30°C to + 80°C
Contact type	2 NC / 2 NO contact (Zb)	2 NC / 2 NO contact (Zb)
Mechanical service life (up to) ^①	1 x 10 ⁶ switching cycles	1 x 10 ⁶ switching cycles
Switching frequency max.	≤ 10 / min.	≤ 10 / min.
Mounting	4 x M8	4 x M8
B10d (up to) ^①	2 mill.	2 mill.
Type of connection	8 Screw connections (M3, 5)	8 Screw connections (M3, 5)
Conductor cross sections	Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm ²	Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm ²
Cable entry	1 x M20 x 1.5	3 x M20 x 1.5
Weight	≈ 1.62 kg	≈ 4.21 kg
Installation position	Any	Any
Protection class	IP65 conforming to EN 60529	IP65 conforming to EN 60529
Standards		
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1		

^① Depending on switching system. See Table on Pages 72 – 75.

Double-Spanned Rope Pull Switches

		SI1	SI2
Variant 1	Article No. Designation Max. span	6014735001 SI1-U2Z AK R-RAST 2 x 50 m	6015735002 SI2-U2Z AK R-RAST 2 x 50 m
Variant 2	Article No. Designation Max. span	6014735025 SI1-U1Z/U1Z AK R-RAST 2 x 50 m	
Variant 3	Article No. Designation Max. span		
Technical Data Rated insulation voltage U_i max. Rated operating voltage U_e max Conventional thermal current I_{the} Utilisation category U_e/I_e		250 V AC 240 V 10 A AC-15, 240 V/3 A	400 V AC 240 V 10 A AC-15, 240 V/3 A
Approvals			