

Pull-rope Emergency Switch SN VDE-approved

Technical Data



Pull-rope Emergency Switch Type SN

- Double-sided actuation for up to 50 m rope each
- Up to 4 contacts NO and 4 contacts NC
- Interlocking in actuated position with manual reset only
- Snap action safety contacts with forced-opening system
- Meet any new European Security Standard
- Certified according to VDE -0660/200
- Reliable operation by high rope tension and large actuation travel
- 2 cable inlets with PG 16 or ½"NPTF threads
- Type of enclosure IP 65
- Version with CSA (Canadian Standard Association) approval.

Rope-operated emergency switches are used to give personal and process safety of conveyors or other enlarged machines or lines

and to stop them from any point. Pulling on the rope actuates the switch and effects emergency stop demand.

Rope-operated emergency switches type **SN** are for double-sided rope mountings. Pulling on one of the ropes actuates the switch via a snap action and interlocks. Simultaneously with the actuation of the switch interlocking is being effected. Switch position and pulling direction is indicated by the position of the locked switch lever. Even if there should be a spring break within the switch or the contacting areas should be baked together the installed forced opening system effects a secure opening of the circuits. Release/reset of the switch's interlocking can only be performed manually and having direct access to the switch assembly – there is no remote reset possible.

The switch can be supplied with up to four single-circuit two-way contacts or with up to four contacts NO and four contacts NC.

All switching contacts are commutated simultaneously, independent of the direction from which the switch has been actuated. These switches are designed to be installed in between two ropes. The maximum rope lengths supported by the switches should not exceed 50m for each rope. Malfunctions of rope operation and unwanted stops caused by vibrations or thermal tensions within the length of the ropes, or other unwanted physical influences, are extremely unlikely due to the large rope travel and the large tension (>40 N) necessary for switching.

The standard for automatic emergency stop due to rope break, DIN EN 418 paragraph 4.5.2, is fulfilled when used with two preload springs RZ168 available out of our accessory programme.

The material of the switch housing is coloured glas fibred reinforced polyester. Stability of the polyester enclosure is comparable to that of cast iron housing. Polyester, however, is not so brittle and thus more resitant against

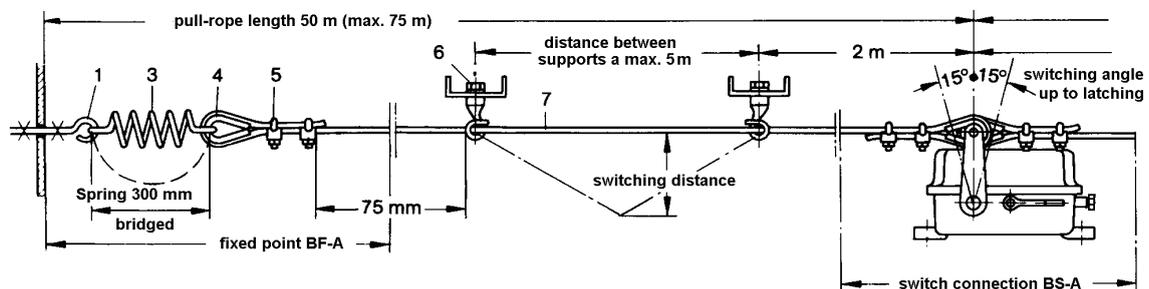
shock. It is dust- and waterproof housing (IP65).

The switches are guaranteed for an extended working life: The use of sealing rings protecting all ducts out of the housing, shafts made of stainless VA-Steel, screws made of stainless VA-steel, loss protected housing cover screws.....

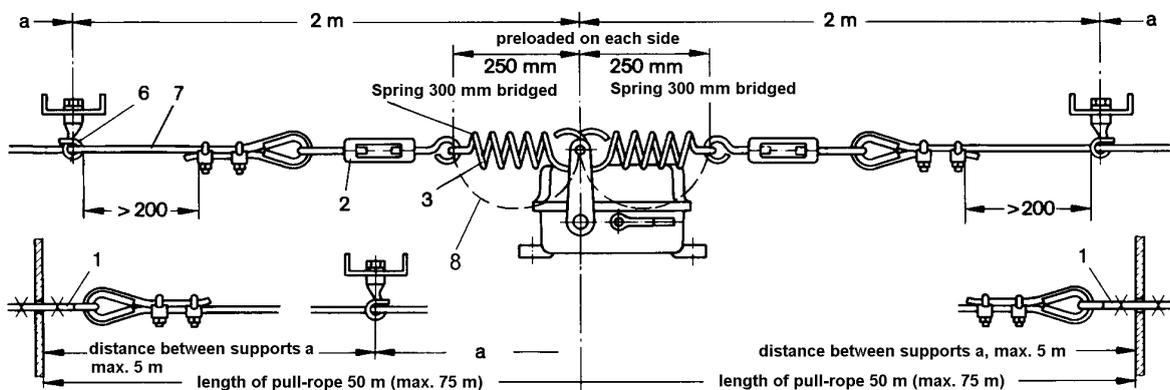
Variations

- 8-digit clamp with complete internal wiring for easyest installation of your electrical wiring
- Pull-off dislocking lever
- Installation of a signal lamp
- Version with approval by the Canadian Standard Association
- EEX and SCH protected and approved versions

Pull Rope Arrangement, Version A



Pull-rope Arrangement, Version B VDE 0113, DIN EN 418



Accessoires:

- 1 eye screw M6x60
- 2 turnbuckle M6x110
- 3 spring RZ168
- 4 rope eye 3/16"

- 5 rope clamp 3/16"
- 6 wire loop M8x80 with bolt
- 7 pull rope: steel rope with red PVC sheathing
- 8.spring bridge

Technical Data:

Certification	VDE 0660, part 200, reg.no 5136
Conforms to standards	IEC 947-5-1/EN 60947-5-1/DIN EN 292/UVV-VBG10 DIN EN 418 if equipped with two preload springs
Rope travel	42 mm
Rope tension for actuation	40 N
Cable inlet	2 x PG 16 threaded hole Or per adapter (accessory) ½" NPTF
Type of enclosure	IP 65
Housing material	Glass fibre reinforced polyester housing
Housing colour	Yellow RAL 1004 or red RAL 3000
Weight	2,3 kg
Fixing	2 long holes for M10-screws
Operating temperature	-40°C up to +85°C

Selection table

Switch type	Contacts		alternating switch	Rating	Remarks
	NO	NC			
SN 1-1	1	1		230 VAC, 1 A	Rubbing contacts selfcleaning designed for low current
SN 1-2	2	2		230 VAC, 1 A	
SN 1-3	3	3		230 VAC, 1 A	
SN 1-4	4	4		230 VAC, 1 A	
SN 2-1			1	230 VAC, 8 A	Single circuit 2way cont
SN 2-2			2	230 VAC, 8 A	Single circuit 2way cont
SN 2-3			3	230 VAC, 8 A	Single circuit 2way cont
SN 2-4			4	230 VAC, 8 A	Single circuit 2way cont

Dimensions:

