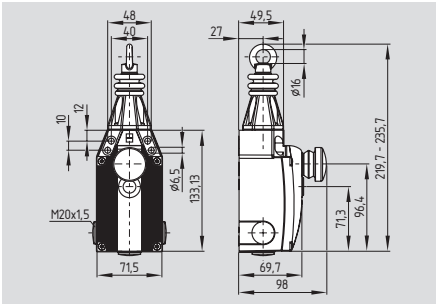


Pull-wire Emergency-Stop switches

ZQ 900



- To EN ISO 13850 / IEC 60947-5-5
- Metal enclosure
- 4 contacts
- Position indicator
- Robust design
- Large wiring compartment
- 3 cable entries M20
- One tension force for wire lengths from 5 to 50 m
- Wire up to 50 m long
- Reset pushbutton
- Twisting of connection ring not possible
- Optional signaling lamp
- External watertight collar
- Wire pull and breakage function
- EX version available
- AS-Interface Safety at Work available

Approvals



Ordering details

ZQ 900-①②

No.	Replace	Description
①	11	1 NO/1 NC
	13	1 NO/3 NC
	22	2 NO/2 NC
	02	2 NC
	04	4 NC
②		Without emergency-stop pushbutton
	N	Without emergency-stop pushbutton

Technical data

Standards: IEC/EN 60947-5-1
IEC/EN 60947-5-5
EN ISO 13850

Enclosure: zinc die-cast, enameled

Cover: thermoplastic

Protection class: IP65, IP67
suffix N: IP65
to IEC/EN 60529

Contact material: silver

Contact type: 1 NC/1 NO
or 2 NC/2 NO
or 3 NC/1 NO

Switching principle: IEC 60947-5-1
snap action with positive break NC contacts

Connection: screw terminals

Cable section: max. 2.5 mm²
(incl. conductor ferrules)

Cable entry: 3 x M20

U_{imp}: 6 kV

U_i: 500 V

I_{the}: 6 A

Utilization category: AC-15, DC-13

I_e/U_e: 4 A / 230 VAC
1 A / 24 VDC

Max. fuse rating: 6 A gG D-fuse
to DIN EN 60269-1

Ambient temperature: -25 °C ... +70 °C

Mechanical life: > 1 million operations

Indicator lamp: optionally

Maximum cable length: 50 m
(please observe ambient temperature range and wire supports)

Features: wire pull and breakage detection

Classification:

Standards: EN ISO 13849-1

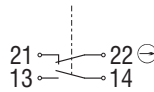
B_{10d} (NC): 100,000

Mission time: 20 years

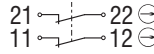
$$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}} \quad n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$$

Contact variants

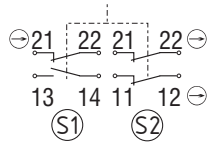
1 NO/1 NC



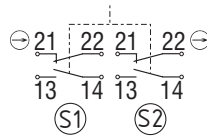
2 NC



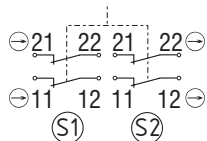
1 NO/3 NC



2 NO/2 NC

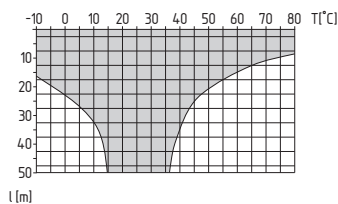


4 NC



Note

Recommended cable lengths for pull-wire Emergency-Stop switches in relation to the range of ambient temperature.
At 5 m distance intermediate wire supports are required, see accessories.



Note

The screwed PL-M20-24V indicator lamp must be ordered separately, see accessories.

The protection class for ordering suffix N is IP65 to IEC/EN 60529.

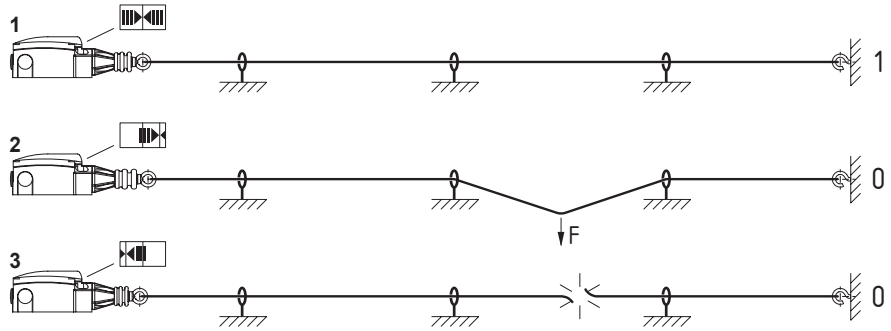
Pull-wire Emergency-Stop switches

Mode of operation

Legend

- 1 Not actuated
- 2 Wire pull detection
- 3 Wire breakage detection

Wire pull and breakage detection



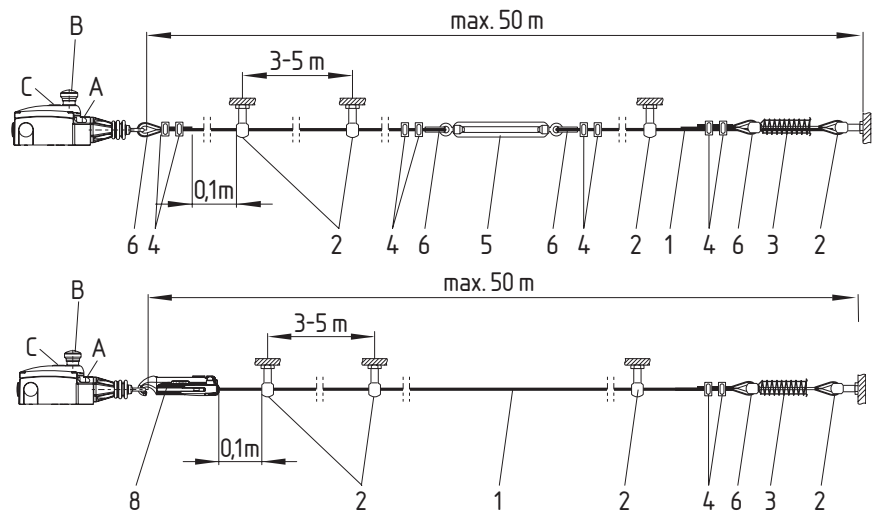
Mounting instructions

Legend

- 1 Wire rope (STQ441-SC)
- 2 Eyebolt (STQ441-EB)
- 3 Spring (STQ441-SS)
- 4 Wire clamp (STQ441-CC)
- 5 Tensioner (STQ441-TB)
- 6 Wire thimble (STQ441-TH)
- 7 Shackle (S900-SH)
- 8 Rope tensioner (S900)

- A Position indicator
- B Emergency-stop pushbutton
- C Reset button

One-side operation



Mounting instructions

As the thimbles are subject to deformation in case of wire pull, the wire should be pulled several times after fitting. After that, the wire must be re-tensioned using the eyebolt or the tensioner.

Thimble deformation

