

Datasheet - EX-ZQ 900-04-3D

Pull-wire emergency stop switches / EX-ZQ 900



(Minor differences between the printed image and the original product may exist!)

- Metal enclosure
- Release push button
- Position indicator
- Robust design
- Large wiring compartment
- Twisting of towing eye not possible
- External watertight collar
- wire pull and breakage detection
- one-side operation / wire up to 75 m long
- 3 cable entries M 20 x 1.5

Ordering details

| | |
|--------------------------|-----------------|
| Product type description | EX-ZQ 900-04-3D |
| Article number | 101212894 |
| EAN Code | 4030661402147 |
| eCl@ss | 27-37-12-90 |

Approval

| | |
|----------|------|
| Approval | ATEX |
|----------|------|

Classification

| | |
|-----------------------------------|--|
| Standards | EN ISO 13849-1 |
| B10d Normally-closed contact (NC) | 100.000 |
| Mission time | 20 Years |
| notice | $MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$ |

Global Properties

| | |
|--------------------|--|
| Permanent light | EX-ZQ 900 |
| Equipment category | II 3D |
| Standards | IEC/EN 60947-5-1, IEC/EN 60947-5-5, EN ISO 13850, EN 60079-0, EN |

60079-31

Compliance with the Directives (Y/N) 

Yes

Materials

| | |
|-----------------------------|---------------|
| - Material of the housings | zinc die-cast |
| - Material of the cover | Steel |
| - Material of the contacts | Silver |
| Housing coating | painted |
| Weight | 1500 |
| Emergency-Stop button (Y/N) | No |

Mechanical data

| | |
|--|---|
| Design of electrical connection | Screw connection |
| Cable cross-section of the cable glands | |
| - Min. Cable cross-section of the cable glands | Ø 7 |
| - Max. Cable cross-section of the cable glands | Ø 12 |
| Cable section | |
| - Min. Cable section | 0,75 |
| - Max. Cable section | 2.5 |
| Mechanical life | > 1.000.000 operations |
| notice | All indications about the cable section are including the conductor ferrules. |
| Actuating force | max. 200 N |
| actuating travel | max. 400 mm |
| Length of wire | max. 75 m |

Ambient conditions

| | |
|----------------------------------|----------------------|
| Ambient temperature | |
| - Min. environmental temperature | -20 |
| - Max. environmental temperature | +55 |
| Protection class | IP67 to IEC/EN 60529 |

Electrical data

| | |
|---|--|
| Design of control element | Normally open contact (NO), Opener (NC) |
| Switching principle | Snap switch element |
| Number of auxiliary contacts | 0 |
| Number of safety contacts | 4 |
| Rated impulse withstand voltage U_{imp} | 6 kV |
| Rated insulation voltage U_i | 500 V |
| Thermal test current I_{the} | 4 A |
| Utilisation category | AC-15: 230 V / 4 A, DC-13: 24 V / 1 A |
| Max. fuse rating | 6 A gG D-fuse |

ATEX

| | |
|--|-------------------------------|
| EX-marking | EX II 3D Ex tc IIIC T100°C Dc |
| Explosion protected category for dusts | 3D |
| Explosion protection Zones for dusts | 22 |

Dimensions

Dimensions of the sensor

| | |
|--------------------|------------------|
| - Width of sensor | 71.5 |
| - Height of sensor | 221 mm up 237 mm |
| - Length of sensor | 57 |

notice

For lengths of over 10 m, intermediate wire supports must be installed every 3 to 5 m.

Recommended cable lengths for pull-wire Emergency-Stop switches in relation to the range of ambient temperature.

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.

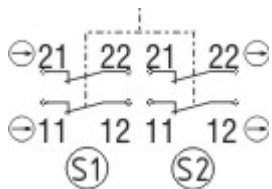
Included in delivery

Including Ex-certified screwed cable gland and screw plug

Indication legend

- A = Position indicator
- B = Emergency-Stop button
- C = reset button
- 1 = Wire rope
- 2 = Eyebolt
- 3 = nut
- 4 = Wire clamp
- 5 = Tensioning Jack
- 6 = Wire thimble
- 7 = shackle
- 8 = rope tensioner

Diagram



Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

Ordering code

EX-ZQ 900 **-(1)**-3D

| | |
|------------|--|
| (1) | |
| 11 | 1 Normally open contact (NO) / 1 Opener (NC) |
| 13 | 1 Normally open contact (NO) / 3 Opener (NC) |
| 22 | 2 Normally open contact (NO) / 2 Opener (NC) |
| 02 | 2 Opener (NC) |
| 04 | 4 Opener (NC) |

Documents

Operating instructions and Declaration of conformity (fr) 506 kB, 30.01.2018

Code: mrl_ex-zq900_fr

Operating instructions and Declaration of conformity (nl) 501 kB, 30.01.2018

Code: mrl_ex-zq900_nl

Operating instructions and Declaration of conformity (en) 502 kB, 13.11.2017

Code: mrl_ex-zq900_en

Operating instructions and Declaration of conformity (pt) 508 kB, 16.01.2018

Code: mrl_ex-zq900_pt

Operating instructions and Declaration of conformity (pl) 522 kB, 30.01.2018

Code: mrl_ex-zq900_pl

Operating instructions and Declaration of conformity (jp) 499 kB, 30.06.2014

Code: mrl_ex-zq900_jp

Operating instructions and Declaration of conformity (es) 500 kB, 24.01.2018

Code: mrl_ex-zq900_es

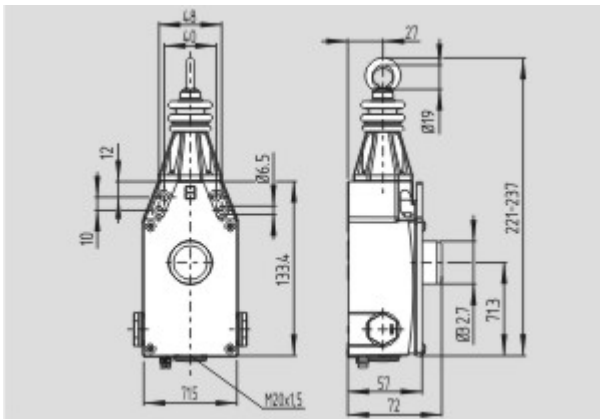
Operating instructions and Declaration of conformity (it) 500 kB, 30.01.2018

Code: mrl_ex-zq900_it

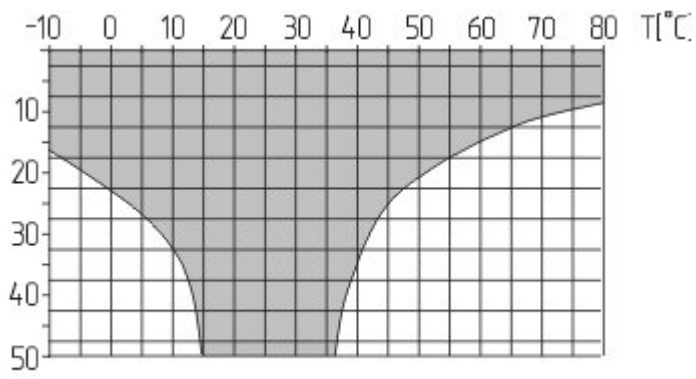
Operating instructions and Declaration of conformity (de) 475 kB, 13.11.2017

Code: mrl_ex-zq900_de

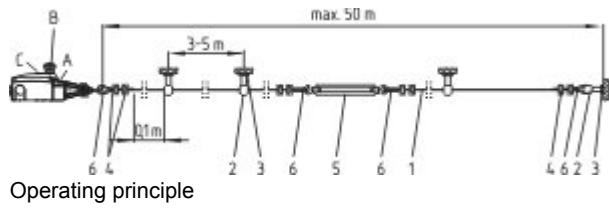
Images



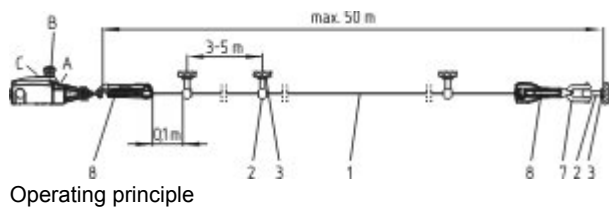
Dimensional drawing (basic component)



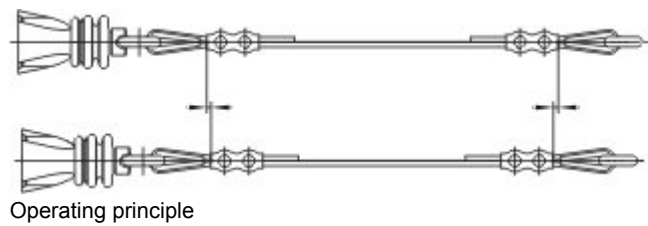
l [m]
Characteristic curve



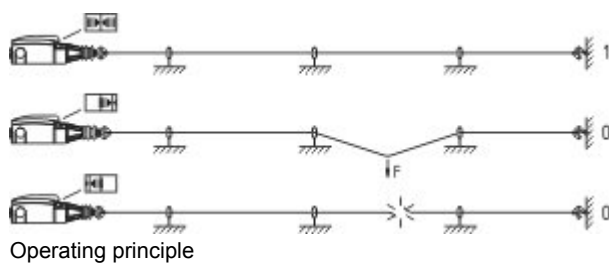
Operating principle



Operating principle



Operating principle



Operating principle