

## Datasheet - EX-ZQ 900-22-3D

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 900-22-3D
Article number	101212892
EAN Code	4030661402130
eCl@ss	27-37-12-90

### Approval

Approval	ATEX
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### 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
- Material of the cover
- Material of the contacts

zinc die-cast

Steel

Silver

Housing coating

painted

Weight

1470 g

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

&gt; 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

2

Number of safety contacts

2

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.

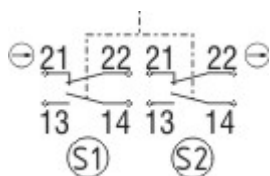
## Included in delivery

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

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**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

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