Datasheet - ZQ 900-11

Pull-wire emergency stop switches / ZQ 900

☒ Preferred typ

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

- Metal enclosure
- one-side operation / wire up to 50 m long
- Release push button
- Position indicator
- Robust design
- Large wiring compartment
- Twisting of towing eye not possible
- External watertight collar
- wire pull and breakage detection
- 3 cable entries M 20 x 1.5

Ordering details

Product type description	ZQ 900-11
Article number	101184327
EAN code	4030661332741

Approval

Approval	TÜV USA/CAN CCC

Classification

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

Global Properties

Product name	ZQ 900
Standards	EN 60947-5-1, IEC/EN 60947-5-5, EN ISO 13850
Compliance with the Directives (Y/N) CE	Yes
Materials	
- Material of the housings	zinc die-cast
- Material of the cover	Plastic, thermoplastic
- Material of the contacts	Silver
Housing coating	painted
Weight	1300 g
Emergency-Stop button (Y/N)	No

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm²
- Max. Cable section	2.5 mm²
Mechanical life	> 1.000.000 operations
Actuating force	max. 200 N
actuating travel	max. 400 mm
Indicator lamp (Y/N)	optional
Length of wire	max. 50 m
actuating travel	max. 400 mm
notice	All indications about the cable section are including the conductor ferrules.

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+70 °C
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	1 piece
Number of safety contacts	1 piece
Rated impulse withstand voltage U_{imp}	6 kV
Rated insulation voltage U_i	500 V
Thermal test current I_{the}	6 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 1 A
Max. fuse rating	6 A gG D-fuse

Dimensions

Dimensions of the sensor	
- Width of sensor	71.5 mm
- Height of sensor	220.3 mm up 236.3 mm
- Length of sensor	69,7 mm

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.

The screwed G24-M20 indicator lamp must be ordered separately, see accessories.

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.

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

ZQ 900-**(1)(2)**

(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)

(2)

without	without Emergency-Stop button
N	with Emergency-Stop button

Documents

Operating instructions and Declaration of conformity (nl) 851 kB, 09.12.2009

Code: mrl_zq900_nl

Operating instructions and Declaration of conformity (es) 849 kB, 09.12.2009

Code: mrl_zq900_es

Operating instructions and Declaration of conformity (it) 846 kB, 09.12.2009
Code: mrl_zq900_it

Operating instructions and Declaration of conformity (jp) 1 MB, 07.01.2011
Code: mrl_zq900_jp

Operating instructions and Declaration of conformity (en) 888 kB, 24.01.2011
Code: mrl_zq900_en

Operating instructions and Declaration of conformity (fr) 849 kB, 09.12.2009
Code: mrl_zq900_fr

Operating instructions and Declaration of conformity (de) 996 kB, 24.01.2011
Code: mrl_zq900_de

Operating instructions and Declaration of conformity (br) 530 kB, 10.05.2010
Code: mrl_zq900_br

Operating instructions and Declaration of conformity (pt) 703 kB, 24.01.2011
Code: mrl_zq900_pt

BG-test certificate (de, en) 295 kB, 26.11.2007
Code: z_zq9p01

Brochure (de) 390 kB, 06.10.2006
Code: b_900p01

Brochure (en) 389 kB, 06.10.2006
Code: b_900p02

Brochure (es) 391 kB, 06.10.2006
Code: b_900p09

Brochure (it) 391 kB, 06.10.2006
Code: b_900p05

Brochure (fr) 415 kB, 26.07.2007
Code: b_900p03

Brochure (pt) 391 kB, 06.10.2006
Code: b_900p10

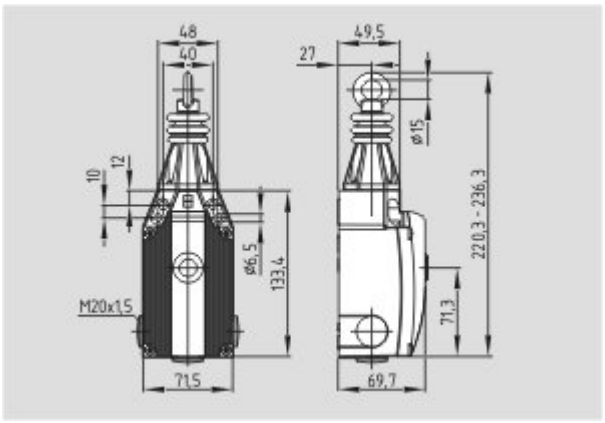
CCC certification (cn) 359 kB, 24.02.2011
Code: q_zq9p03

CCC certification (cn) 359 kB, 24.02.2011
Code: q_zq9p03

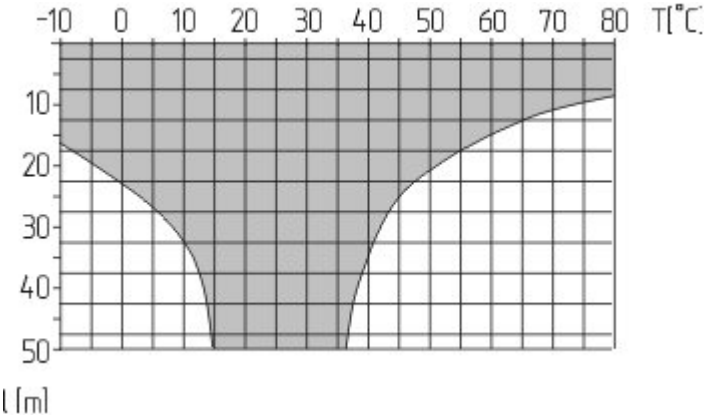
CCC certification (en) 375 kB, 24.02.2011
Code: q_zq9p02

CCC certification (en) 375 kB, 24.02.2011
Code: q_zq9p02

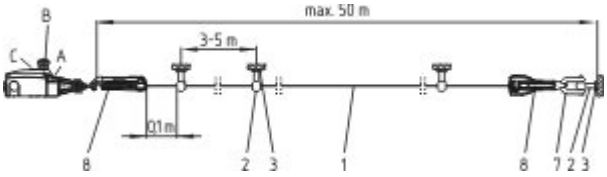
Images



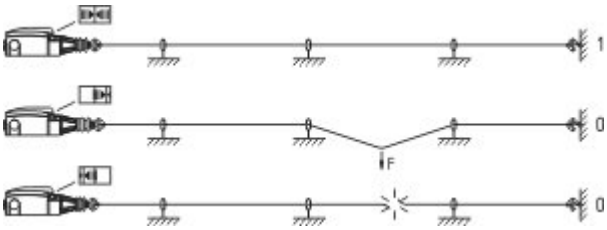
Dimensional drawing (basic component)



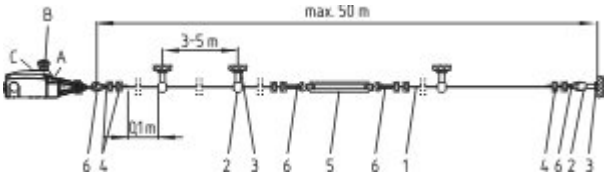
Characteristic curve



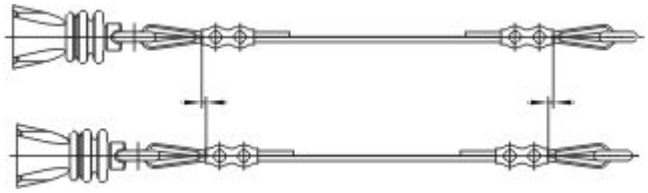
Operating principle



Operating principle



Operating principle



Operating principle

System components

Accessories

101162986 - Eyebolt BM 8 x 70

101192471 - Eyebolt BM 8 x 70 NIRO

101084928 - Eyebolt BM 10 x 40

101203477 - Wire clamp 3 mm NIRO

101203569 - Wire clamp 4 mm NIRO

101203478 - Wire clamp 5 mm NIRO

101190917 - Duplex wire clamp 3 mm NIRO

• for Wire rope Ø 3 mm

101203569 - Duplex wire clamp 4 mm NIRO

• for Wire rope Ø 3 mm

101196043 - Egg-shaped wire clamp GR 3

• for Wire rope Ø 3 mm

101077072 - Egg-shaped wire clamp GR 4

• for Wire rope Ø 4 mm

101203472 - WIRE THIMBLE 3 mm NIRO

• for Wire rope Ø 3 mm
• to DIN 6899

101170750 - WIRE THIMBLE 4 mm

• for Wire rope Ø 4 mm
• to DIN 6899

101203475 - WIRE THIMBLE 4 mm NIRO

• for Wire rope Ø 4 mm
• to DIN 6899

101203476 - WIRE THIMBLE 5 mm NIRO

• for Wire rope Ø 5 mm
• to DIN 6899

101192433 - PULLEY

• for Wire rope Ø 3 mm
• To guide the wire rope where the path is not a straight line

101087930 - TENSIONING JACK M6

• For exact adjustment of the tension of the wire rope
• to DIN 1480

101186696 - TENSION SPRING RZ-2041

• To maintain the reaction force

101186490 - SHACKLE NIRO

• Shackle for fixing the wire rope to the eyebolt

101094517 - WIRE ROPE 5 mm

• With red PVC sheath
• Ø 5 mm total
• Steel core Ø 3 mm

101147304 - WIRE UNIT COMPLETE 5 m

• Ready-to-fit
• With red PVC sheath

101155097 - WIRE UNIT COMPLETE 10 m

• Ready-to-fit
• With red PVC sheath

101155098 - WIRE UNIT COMPLETE 15 m

• Ready-to-fit
• With red PVC sheath

101155099 - WIRE UNIT COMPLETE 20 m

- Ready-to-fit
- With red PVC sheath

101170761 - WIRE UNIT COMPLETE 25 m

- Ready-to-fit
- With red PVC sheath

101163145 - WIRE UNIT COMPLETE 30 m

- Ready-to-fit
- With red PVC sheath

101170748 - WIRE UNIT COMPLETE 40 m

- Ready-to-fit
- With red PVC sheath

101163146 - WIRE UNIT COMPLETE 50 m

- Ready-to-fit
- With red PVC sheath

101186704 - rope tensioner S 900

- Smooth adjustment
- Only one tool
- Antiskid
- Time-saving
- Ergonomic
- No risk of injury

Image

Image
et=sS