

Datasheet - TQ 900-11

Pull-wire switches / TQ 900



Preferred typ



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

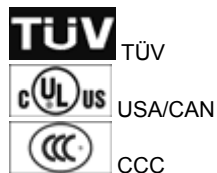
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	TQ 900-11
Article number	101184478
EAN code	4030661332826

Approval

Approval




Classification

Standards	EN ISO 13849-1
B _{10d} Opener (NC)	100 000 operations
B _{10d} Normally open contact (NO)	100 000 operations
Mission time	20 Years

Global Properties

Product name	TQ 900
Standards	EN 60947-5-1

Compliance with the Directives (Y/N) 

Yes

Materials

- Material of the housings	zinc die-cast
- Material of the cover	Plastic, thermoplastic
- Material of the contacts	Silver
Housing coating	painted
Weight	1255 g

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm ²
- Max. Cable section	1 x 2.5 mm ²
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
Indicator lamp (Y/N)	optional
Length of wire	5 m ... max. 50 m

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	Creep circuit element
Number of shutters	1 piece
Number of openers	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 bis 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

1 = Wire rope
2 = Eyebolt
3 = nut
4 = Wire clamp
5 = Tensioning jack
6 = Wire thimble
7 = shackle
8 = rope tensioner
A = Position indicator

Diagram



Note Diagram

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

Ordering code

TQ 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)

Documents

Mounting and wiring instructions (de, en, fr, pt) 198 kB, 13.06.2008

Code: m_tq9p01

Declaration of conformity (de, en) 95 kB, 29.05.2006

Code: __q44p01

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

Code: z_zq9p01

CCC certification (en) 235 kB, 19.08.2013

Code: q_zq9p02

CCC certification (en) 235 kB, 19.08.2013

Code: q_zq9p02

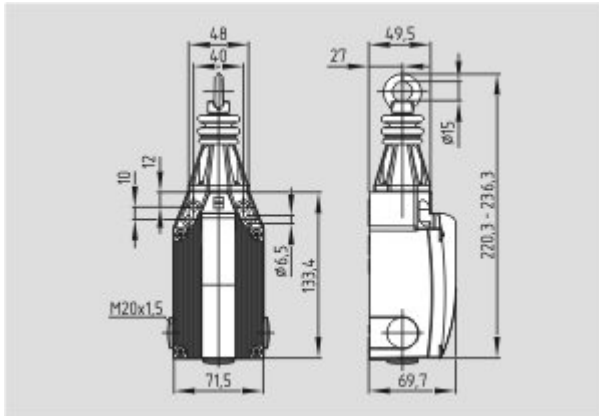
CCC certification (cn) 253 kB, 19.08.2013

Code: q_zq9p03

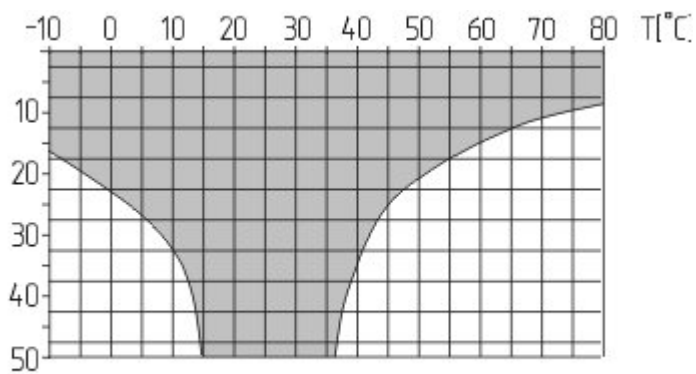
CCC certification (cn) 253 kB, 19.08.2013

Code: q_zq9p03

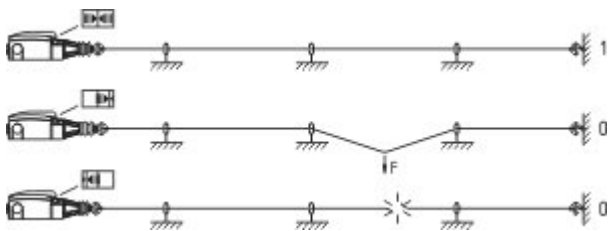
Images



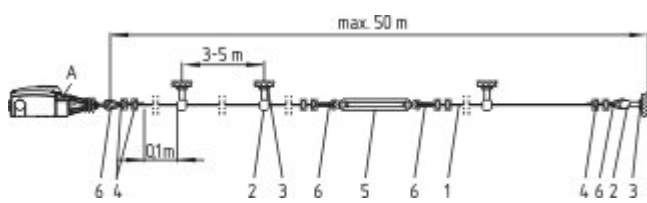
Dimensional drawing (basic component)



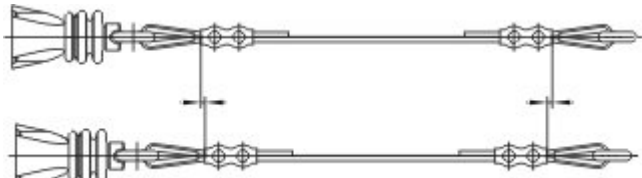
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Characteristic curve



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 \varnothing 3 mm



101203569 - Duplex wire clamp 4 mm NIRO

- for Wire rope \varnothing 3 mm



101196043 - Egg-shaped wire clamp GR 3

- for Wire rope \varnothing 3 mm



101077072 - Egg-shaped wire clamp GR 4

- for Wire rope \varnothing 4 mm



101203472 - WIRE THIMBLE 3 mm NIRO

- for Wire rope \varnothing 3 mm
- to DIN 6899



101170750 - WIRE THIMBLE 4 mm

- for Wire rope \varnothing 4 mm
- to DIN 6899



101203475 - WIRE THIMBLE 4 mm NIRO

- for Wire rope \varnothing 4 mm
- to DIN 6899



101203476 - WIRE THIMBLE 5 mm NIRO

- for Wire rope \varnothing 5 mm
- to DIN 6899



101192433 - PULLEY

- for Wire rope \varnothing 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
- \varnothing 5 mm total
- Steel core \varnothing 3 mm
- Quantity: Meter



103003628 - WIRE UNIT COMPLETE 5 m

- Ready-to-fit
- With red PVC sheath



103003629 - WIRE UNIT COMPLETE 10 m

- Ready-to-fit
- With red PVC sheath

103003865 - WIRE UNIT COMPLETE 15 m

- Ready-to-fit
- With red PVC sheath



103003866 - 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



103003630 - WIRE UNIT COMPLETE 30 m

- Ready-to-fit
- With red PVC sheath



103003867 - WIRE UNIT COMPLETE 40 m

- Ready-to-fit
- With red PVC sheath



103003631 - 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



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