

## Datasheet - TQ 200-11

Pull-wire switches / TQ 200



- light alloy die-casting enclosure
- for suspended mounting

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


### Ordering details

Product type description	TQ 200-11
Article number	TQ 200-11
EAN code	

### Classification

Standards	EN ISO 13849-1
B <sub>10d</sub> Normally-closed contact (NC)	2.000.000
- notice	at 10% I <sub>e</sub> and ohmic load
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

Product name	TQ 200
Standards	EN 60947-5-1
Compliance with the Directives (Y/N) 	Yes
Materials	
- Material of the housings	light alloy die-casting
Weight	
Emergency-Stop button (Y/N)	No

## Mechanical data

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Design of electrical connection	Shielded cable
Cable length	3 m
Conductors	4 x 1 mm <sup>2</sup>
Mechanical life	1.000.000 operations
Actuating force (Tension force F)	40.4 ± 3.6 N
resistance to shock	30 g
Resistance to vibration	10 - 150 Hz (0,5 mm / 5 g)
Actuating speed	60 mm / min

## Ambient conditions

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Ambient temperature	
- Min. environmental temperature	-40 °C
- Max. environmental temperature	+80 °C
- Min. Storage and transport temperature	-40 °C
- Max. Storage and transport temperature	+80 °C
Relative humidity	approx. 93%, non-condensing
Protection class	IP54
Protection rating	II
Overvoltage category	III
Degree of pollution	3
Switching element protection class	IP67

## Electrical data

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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 <sub>imp</sub>	2.5 kV
Rated insulation voltage U <sub>i</sub>	40 V
Thermal test current I <sub>the</sub>	1 A
Utilisation category	DC-13
Rated operating current/voltage I <sub>e</sub> /U <sub>e</sub>	24 VDC / 1 A; 36 VDC / 0,8 A
Required rated short-circuit current	1000 A
Max. fuse rating	6 A gG D-fuse

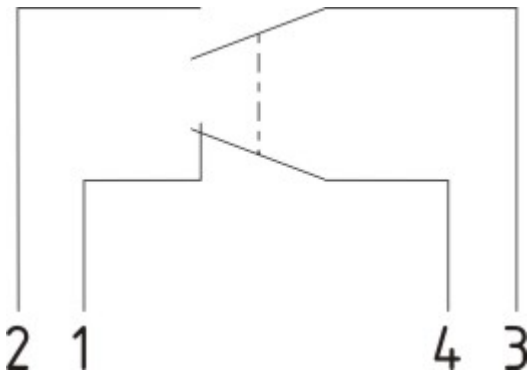
## Dimensions

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Dimensions	
- Width	60 mm
- Height	250 mm
- Depth	32 mm

## Diagram

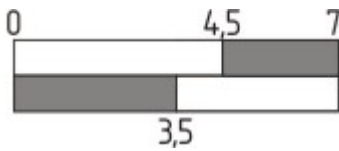
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Note Diagram

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

Switch travel diagram



Notes Switch travel diagram

- Contact closed
- Contact open
- Setting range
- Break point
- Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

Documents

**Operating instructions and Declaration of conformity (es)** 228 kB, 03.06.2013

Code: mrl\_tq200\_es

**Operating instructions and Declaration of conformity (it)** 227 kB, 03.06.2013

Code: mrl\_tq200\_it

**Operating instructions and Declaration of conformity (nl)** 228 kB, 03.06.2013

Code: mrl\_tq200\_nl

**Operating instructions and Declaration of conformity (jp)** 324 kB, 30.04.2013

Code: mrl\_tq200\_jp

**Operating instructions and Declaration of conformity (de)** 231 kB, 18.02.2013

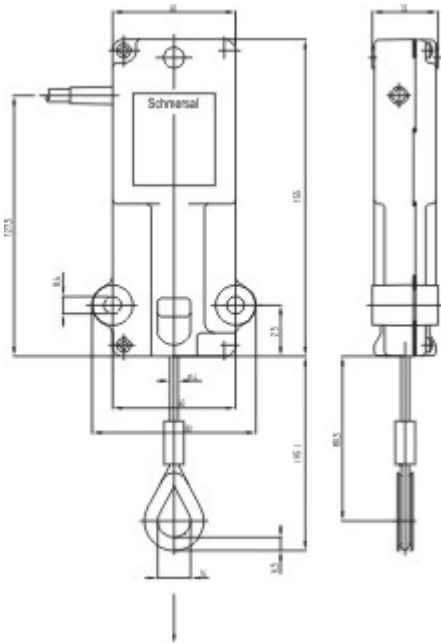
Code: mrl\_tq200\_de

**Operating instructions and Declaration of conformity (en)** 230 kB, 18.02.2013

Code: mrl\_tq200\_en

Images

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Dimensional drawing (basic component)

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

Generiert am 30.08.2014 - 06:44:57h Kasbase 2.2.18.F DBI

