Datasheet - EX-TR 355-20ZH-3G/D



Position switches with safety function / EX-355 Metal enclosure with Actuator / EX-355 Roller plunger ${\bf r}$



- Metal enclosure
- · Wide range of alternative actuators
- · Good resistance to oil and petroleum spirit
- 66,7 mm x 76 mm x 38 mm
- Actuator heads can be repositioned by 4 x 90°
- Including Ex-certified screwed cable gland and screw plug
- Mounting details to EN 50041
- 3 cable entries M 20 x 1.5
- · Ex certified

27-27-26-01

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

Ordering details

Product type description EX-TR 355-20ZH-3G/D
Article number 10EX-TR 355-20ZH-3G/D

EAN Code

Approval

eCl@ss

Approval

Classification

Standards ISO 13849-1 Mission time 20 Years

notice $MTTF_d = \frac{B_{10d}}{0.1 \text{ yr}}$

 $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{ovcle}}$

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) €€

EX-T 355 Rollendruckbolzen R

IEC 60947-5-1, EN 60079-0, EN 60079-15, EN 60079-31, BG-GS-ET-15

Yes

Suitable for safety functions (Y/N)

Actuator type C to EN 50041

Materials

- Material of the housings light alloy die-casting

- Material of the contacts Silver
Housing coating painted

Housing construction form Norm construction design

Weight

Mechanical data

Design of electrical connection Screw connection

Cable cross-section of the cable glands

Min. Cable cross-section of the cable glands
 Max. Cable cross-section of the cable glands
 12

Cable section

- Min. Cable section 0,75
- Max. Cable section 2.5

AWG-Number 13

Mechanical life 30.000.000 operations

Switching frequency 5000

notice All indications about the cable section are including the conductor ferrules.

No

Design of actuating element Roller plunger

Actuating force 17
Bounce duration < 2

Switchover time in accordance with actuating speed

Impact energy

Actuating speed with actuating angle 30° to switch axis

- Min. Actuating speed

- Max. Actuating speed 0,5

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +60
 Protection class

Electrical data

Design of control element Normally open contact (NO)

Switching principle Slow action with staggered contacts

Number of auxiliary contacts2Number of safety contacts0Rated impulse withstand voltage6Rated insulation voltage500Thermal test current10 A

Utilisation category AC-15: 230 V / 4 A,

DC-13: 24 V / 1 A 6 A gG D-fuse

Max. fuse rating 6 A gG D-fi

ATEX

Explosion protection categories for gases Explosion protection Zones for gases Explosion protected category for dusts Explosion protection Zones for dusts ATEX gas ex-protection, Cat. 3
2
ATEX dust ex-protection, Cat. 3

38

Dimensions

Dimensions of the sensor

- Width of sensor- Height of sensor40.5116.6

- Length of sensor

notice

Switch with 2 NO contacts are not for security tasks

Keywords

Keywords

Ex, EEx, ATEX, Ex 235, Ex 235, 235 Ex, 235ex, 235ex, ATEX 235

Diagram



Note Diagram

positive break NC contact

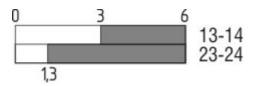
 $^{\scriptsize\textcircled{\scriptsize\textbf{1}}}_{\rm active}$

no active

o-__- Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

Ordering suffix

...-1637

0,3 µm gold-plated contacts

Documents

Operating instructions and Declaration of conformity (es) 373 kB, 24.01.2018

Code: mrl_ex-zt355_es

Operating instructions and Declaration of conformity (jp) 572 kB, 05.07.2011

Code: mrl_ex-zt355_jp

Operating instructions and Declaration of conformity (fr) 376 kB, 01.02.2018

Code: mrl_ex-zt355_fr

Operating instructions and Declaration of conformity (en) 380 kB, 11.01.2019

Code: mrl_ex-zt355_en

Operating instructions and Declaration of conformity (it) 371 kB, 16.02.2018

Code: mrl_ex-zt355_it

Operating instructions and Declaration of conformity (pl) 392 kB, 16.02.2018

Code: mrl_ex-zt355_pl

Operating instructions and Declaration of conformity (de) 337 kB, 11.01.2019

Code: mrl_ex-zt355_de

Operating instructions and Declaration of conformity (pt) 378 kB, 23.01.2018

Code: mrl_ex-zt355_pt

Operating instructions and Declaration of conformity (nl) 375 kB, 31.01.2018

Code: mrl_ex-zt355_nl

Brochure (de) 7 MB, 19.10.2016

Code: b_atep01_de

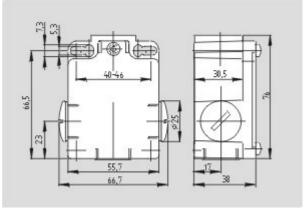
Brochure (en) 7 MB, 19.10.2016

Code: b_atep01_en

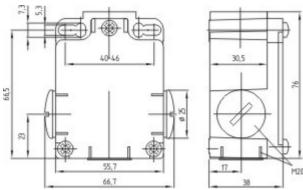
Brochure (it) 3 MB, 20.07.2007

Code: b_atep05

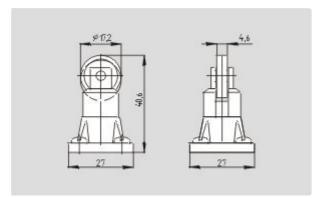
Images



Dimensional drawing (basic component)



Dimensional drawing (basic component)



Dimensional drawing (actuator)

