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# Datasheet - EX-T3K 355-02ZH-3G/D

Position switches with safety function / EX-355 Metal enclosure with Actuator / EX-355 Angle roller lever 3K





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

• Actuation from bottom parallel to the switch, therefore only suitable for small housings.

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

#### **Ordering details**

Product type descriptionEX-T3K 355-02ZH-3G/DArticle numberEX-T3K 355-02ZH-3G/DEAN CodeEX-T3K 355-02ZH-3G/DeCl@ss27-27-26-01

Approval

(Ex)

#### Classification

Standards	ISO 13849-1
B10d Normally-closed contact (NC)	20.000.000
Mission time	20 Years
notice	$MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$

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

#### **Global Properties**

Permanent light Standards

Compliance with the Directives (Y/N) CE	Yes
Suitable for safety functions (Y/N)	Yes
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	7
- 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.
Design of actuating element	Angle roller lever
Actuating force	17
Bounce duration	< 2
Switchover time	in accordance with actuating speed
Impact energy	1
Actuating speed with actuating angle 30° to switch axis	
- Min. Actuating speed	
- Max. Actuating speed	0,5

#### **Ambient conditions**

Ambient temperature	
- Min. environmental temperature	-20
- Max. environmental temperature	+60
Protection class	IP67

### **Electrical data**

Design of control element	Opener (NC)
Switching principle	Slow action with staggered contacts
- positive break NC contact \ominus	
Number of auxiliary contacts	0
Number of safety contacts	2
Rated impulse withstand voltage	6
Rated insulation voltage	500
Thermal test current	10 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 3G Ex nC IIC T5 Gc X, EX II 3D Ex tc IIIC T90°C Dc X
Explosion protection categories for gases	ATEX gas ex-protection, Cat. 3
Explosion protection Zones for gases	2
Explosion protected category for dusts	ATEX dust ex-protection, Cat. 3
Explosion protection Zones for dusts	22

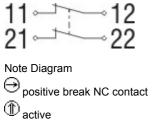
# Dimensions

#### Keywords

Keywords

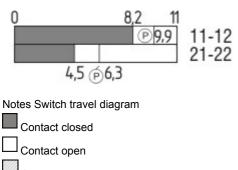
Ex, EEx, ATEX, Ex 235, Ex 235, 235 Ex, 235ex, 235ex, ATEX 235

# Diagram



no active
Normally-open contact
Ormally-closed contact

# Switch travel diagram



Setting range

C Break point

Positive opening sequence/- angle VS adjustable range of NO contact VÖ adjustable range of NC contact N after travel

# **Ordering suffix**

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: EX-T3K 355-02ZH-3G/D**-1297** 

# 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

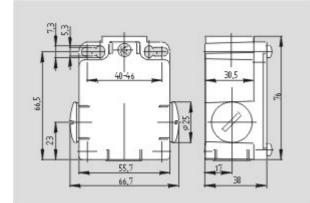
**Operating instructions and Declaration of conformity** (nl) 375 kB, 31.01.2018 Code: mrl\_ex-zt355\_nl

**Brochure** (de) 7 MB, 19.10.2016 Code: b\_atep01\_de

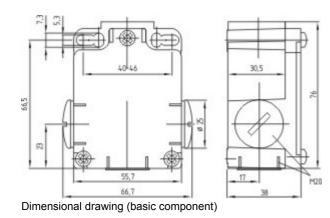
Brochure (en) 7 MB, 19.10.2016 Code: b\_atep01\_en

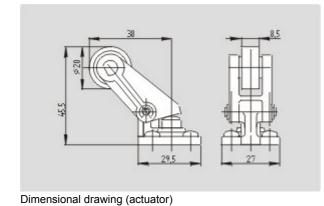
Brochure (it) 3 MB, 20.07.2007 Code: b\_atep05

#### Images



Dimensional drawing (basic component)





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