13.02.2019

14:09:01h

Datasheet - EX-T3K 355-12Z-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 description	EX-T3K 355-12Z-3G/D	
Article number	EX-T3K 355-12Z-3G/D	
EAN Code		
eCl@ss	27-27-26-01	
Approval		

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	Normally open contact (NO), Opener (NC)	
Switching principle	Slow action	
- positive break NC contact 👄		
Number of auxiliary contacts	1	
Number of safety contacts	2	
Rated impulse withstand voltage	4	
Rated insulation voltage	250	
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

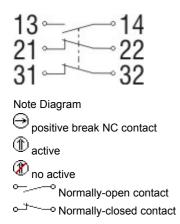
Dimensions of the sensor	
- Width of sensor	58.25
- Height of sensor	121.5
- Length of sensor	38
- Height of sensor	121.5

Keywords

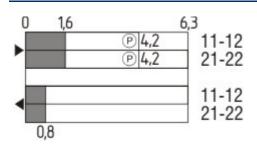
Keywords

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

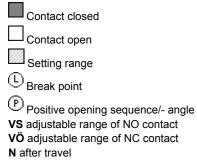
Diagram



Switch travel diagram



Notes Switch travel diagram



Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example	EX-T3K	355-12Z-3G/	D -1297
---------------	--------	-------------	----------------

1297	Enclosure with transverse slotted holes
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

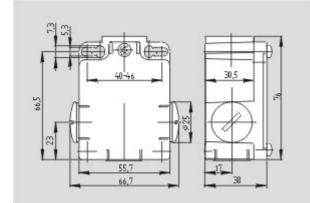
Operating instructions and Declaration of conformity (nl) 375 kB, 31.01.2018 Code: mrl_ex-zt355_nl

Brochure (de) 7 MB, 19.10.2016 Code: b_atep01_de

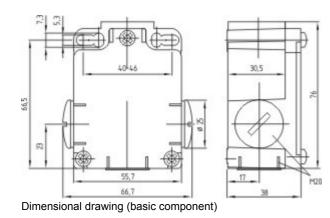
Brochure (en) 7 MB, 19.10.2016 Code: b_atep01_en

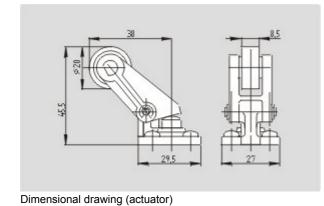
Brochure (it) 3 MB, 20.07.2007 Code: b_atep05

Images



Dimensional drawing (basic component)





K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:09:01h Kasbase 3.3.0.F.64I