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Datasheet - EX-AZ 16-12ZVRK-3D

Safety switch with separate actuator / EX-AZ 16

Preferred typ



- Thermoplastic enclosure
- Double-insulated
- Multiple coding
- 52 mm x 90 mm x 30 mm
- Large wiring compartment
- High level of contact reliability with low voltages and currents
- · Insensitive to soiling
- · Slotted holes for adjustment, circular holes for location
- Long life
- Ex certified
- 3 cable entries M 16 x 1.5

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

Ordering details

Approval		
eCl@ss	27-27-26-02	
EAN Code	4030661324883	
Article number	101185377	
Product type description	EX-AZ 16-12ZVRK-3D	

Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	2.000.000
B10d Normally open contact (NO)	1.000.000
- notice	at 10% le and ohmic load
Mission time	20 Years
notice	$MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$
	n _{op} = $\frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oyole}}$

Global Properties

Standards	EN 60079-0, EN 60079-31, EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) CE	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	145

Mechanical data

Desire of the trian of the second stars	
Design of electrical connection	Screw connection
Cable cross-section of the cable glands	
- Min. Cable cross-section of the cable glands	Ø 6
- Max. Cable cross-section of the cable glands	Ø 12
Cable section	
- Min. Cable section	0,75
- Max. Cable section	2.5
Mechanical life	> 1 million operations operations
notice	All indications about the cable section are including the conductor ferrules.
higher Latching force (Y/N)	Yes
Latching force	30
With ejection force (Y/N)	No
Positive break force	10
positive break travel	8
Max. Actuating speed	1

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-20
- Max. environmental temperature	+70
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 auxiliary contacts	1
Number of safety contacts	2
Rated impulse withstand voltage Uimp	6 kV
Rated insulation voltage Ui	500 V
Thermal test current Ithe	2.5 A
Utilisation category	AC-15: 230 V / 2,5 A, DC-13: 24 V / 2,5 A
Max. fuse rating	4 A gG D-fuse

ATEX

EX-marking	EX II 3D Ex tc IIIC T90°C Dc X
Explosion protection categories for gases	None
Explosion protection Zones for gases	None
Explosion protected category for dusts	3D
Explosion protection Zones for dusts	22

Dimensions of the sensor	
- Width of sensor	52
- Height of sensor	90
- Length of sensor	30

notice

Individual coding available on request

Included in delivery

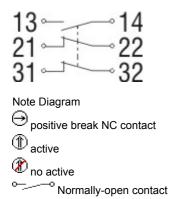
Actuators must be ordered separately. Including Ex-certified screwed cable gland and screw plug Slot sealing plugs

Keywords

Keywords

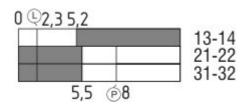
Ex, EEx, ATEX, Ex AZ 16, Ex AZ16, AZ 16 Ex, AZ16 ex, AZ16ex, ATEX AZ16

Diagram



o------- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

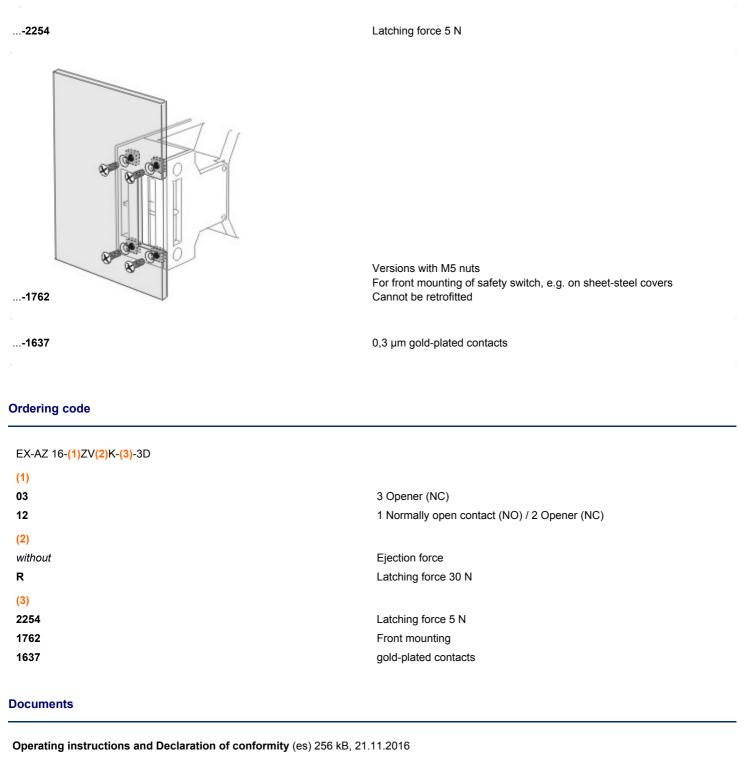
Setting range

(L) Break point

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

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: EX-AZ 16-12ZVRK-3D**-2254**



Code: mrl_ex-az16_es

Operating instructions and Declaration of conformity (de) 282 kB, 26.10.2016 Code: mrl_ex-az16_de

Operating instructions and Declaration of conformity (pl) 292 kB, 21.11.2016 Code: mrl_ex-az16_pl

Operating instructions and Declaration of conformity (da) 253 kB, 31.08.2015 Code: mrl_ex-az16_da

Operating instructions and Declaration of conformity (nl) 254 kB, 12.12.2016

Code: mrl_ex-az16_nl

Operating instructions and Declaration of conformity (pt) 259 kB, 16.01.2017 Code: mrl_ex-az16_pt

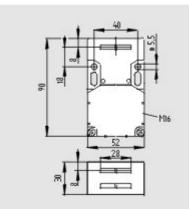
Operating instructions and Declaration of conformity (fr) 259 kB, 16.01.2017 Code: mrl_ex-az16_fr

Operating instructions and Declaration of conformity (it) 237 kB, 21.11.2016 Code: mrl_ex-az16_it

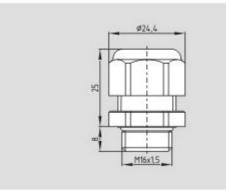
Operating instructions and Declaration of conformity (jp) 550 kB, 18.08.2017 Code: mrl_ex-az16_jp

Operating instructions and Declaration of conformity (en) 297 kB, 26.10.2016 Code: mrl_ex-az16_en

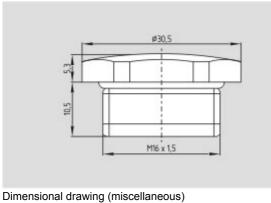
Images



Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)



System components

Mounting accessories



tamperproof screws

- To mount the actuator
- Higher protection against tampering with interlock
- · Protects against unauthorised removal of actuator
- Various lengths available

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 11.07.2018 - 13:41:30h Kasbase 3.3.0.F.64I