13.02.2019

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Datasheet - EX-AZ 16-03ZVRK-3D

Safety switch with separate actuator / EX-AZ 16





- 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

| Product type description |
|--------------------------|
| Article number |
| EAN Code |
| eCl@ss |

EX-AZ 16-03ZVRK-3D 101193631 4030661356457 27-27-26-02

Approval

Approval

ATEX

Classification

| Standards | EN ISO 13849-1 |
|-----------------------------------|--|
| B10d Normally-closed contact (NC) | 2.000.000 |
| Mission time | 20 Years |
| notice | $MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$ |

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

Global Properties

Permanent light Standards Compliance with the Directives (Y/N) C E Materials

EX-AZ 16 EN 60079-0, EN 60079-31, EN 60947-5-1, BG-GS-ET-15

| - Material of the housings | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
|----------------------------|---|
| - Material of the contacts | Silver |
| Housing coating | None |
| Weight | 195 |
| | |

Mechanical data

| Screw connection |
|---|
| |
| Ø 6 |
| Ø 12 |
| |
| 0,75 |
| 2.5 |
| > 1 million operations operations |
| All indications about the cable section are including the conductor ferrules. |
| Yes |
| 30 |
| No |
| 10 |
| 8 |
| 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 | Opener (NC) |
|--------------------------------------|---|
| Switching principle | Creep circuit element |
| Number of auxiliary contacts | 0 |
| Number of safety contacts | 3 |
| 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

| - 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.

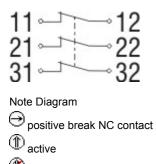
Including Ex-certified screwed cable gland and screw plug Slot sealing plugs

Keywords

Keywords

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

Diagram

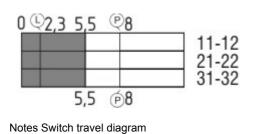


no active

°----- Normally-open contact

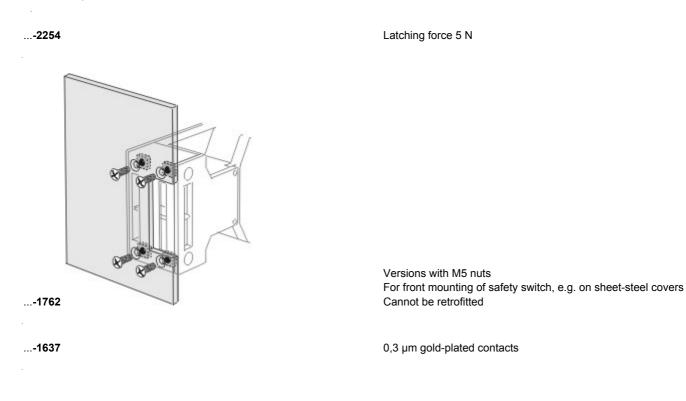
o-it----o Normally-closed contact

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

Ordering suffix



Ordering code

EX-AZ 16-(1)ZV(2)K-(3)-3D

| (1) | |
|---------|--|
| 03 | 3 Opener (NC) |
| 12 | 1 Normally open contact (NO) / 2 Opener (NC) |
| (2) | |
| without | Ejection force |
| R | Latching force 30 N |
| (3) | |
| 2254 | Latching force 5 N |
| 1762 | Front mounting |
| 1637 | gold-plated contacts |
| | |

Documents

Operating instructions and Declaration of conformity (es) 256 kB, 21.11.2016 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

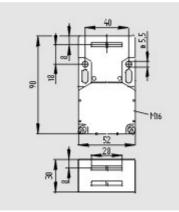
Operating instructions and Declaration of conformity (fr) 259 kB, 16.01.2017 Code: mrl_ex-az16_fr

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

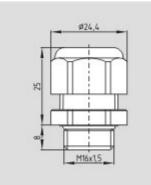
Operating instructions and Declaration of conformity (jp) 550 kB, 18.08.2017 Code: mrl_ex-az16_jp

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

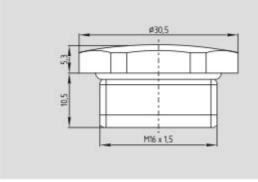
Images



Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)



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 13.02.2019 - 14:39:30h Kasbase 3.3.0.F.64I