DATASHEET



EX-AZ 16-12ZVK-3D

- 3 cable entries M 16 x 1.5
- Explosion protection for ATEX Zones 2 and 22
- Ex-Zone 22
- Thermoplastic enclosure
- Universal coding
- 52 mm x 90 mm x 30 mm
- High level of contact reliability with low voltages and currents
- Slotted holes for adjustment, circular holes for location
- Double-insulated
- as simple electrical apparatus for intrinsically safe current circuits (Ex i) to Ex-Zone 0 and 20

Data

Ordering data

Product type description	EX-AZ 16-12ZVK-3D
Article number (order number)	101188403
EAN (European Article Number)	4030661341767
eCl@ss number, version 12.0	27-27-06-02
eCl@ss number, version 11.0	27-27-06-02
eCl@ss number, version 9.0	27-27-06-02
ETIM number, version 7.0	EC001829
ETIM number, version 6.0	EC001829

Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN 60079-31
Explosion protection zones	22
Explosion protection category	3D

Explosion protection designation	II 3D Ex tc IIIC T90°C Dc X
Manufacturer declaration	Additional simple electrical apparatus (Zone 0 and 20)

General data

Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	140 g

General data - Features

Ejection force	Yes
Number of auxiliary contacts	1
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1 EN IEC 60947-5-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B_{10D} Normally-closed contact (NC)	2,000,000 Operations
B_{10D} Normally open contact (NO)	1,000,000 Operations
Note (B_{10D} Normally open contact (NO))	at 10% I_e and ohmic load

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Positive break travel	8 mm
Positive break force, minimum	10 N
Actuating speed, maximum	1 m/s

Mechanical data - Connection technique

Termination	Screw connection M16x1.5
Cable cross-section of the cable glands, minimum	6 mm
Cable cross-section of the cable glands, maximum	12 mm
Cable section, minimum	0.75 mm²
Cable section, maximum	2.5 mm²
Note (Cable section)	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	52 mm
Height of sensor	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-20 ... +70 °C

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 kV

Electrical data

Thermal test current	2.5 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	2.5 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	2.5 A
Switching element	1 NO contact, 2 NC contacts
Switching principle	Slow action

Material of the contacts, electrical	Silver

Scope of delivery

Scope of delivery	Actuator must be ordered separately. Slot sealing plugs Including Ex-certified screwed cable gland and screw plug

Note

Note (General)	Individual coding available on request

Ordering code

Product type description:
EX-AZ 16-(1)ZV(2)K-(3)-3D

(1)

03	3 NC contact
12	1 NO contact/2 NC contacts

(2)

without	Ejection force
R	Latching force 30 N

(3)

2254	Latching force 5 N
1762	Front mounting
1637	Gold-plated contacts

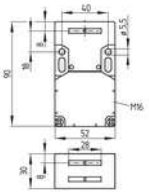
Pictures

Product picture (catalogue individual photo)



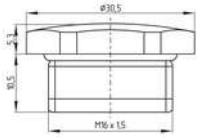
ID: kexazf07
| 587.3 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
| 70.9 kB | .png | 73.731 x 110.772 mm - 209 x 314 px - 72 dpi
| 56.4 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

Dimensional drawing basic component



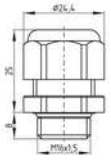
ID: 1az16g01
| 28.1 kB | .cdr |
| 3.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 62.3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Dimensional drawing basic component



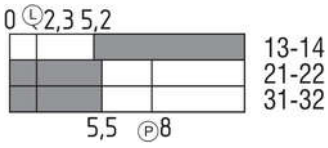
ID: 1xzm1g03
| 2.3 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 50.4 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

Dimensional drawing basic component



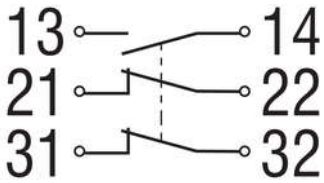
ID: 1xzm1g05
| 2.4 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 44.6 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

Switch travel diagram



ID: kaz16s04
| 20.2 kB | .cdr |
| 2.1 kB | .png | 74.083 x 32.103 mm - 210 x 91 px - 72 dpi
| 65.6 kB | .jpg | 352.778 x 152.047 mm - 1000 x 431 px - 72 dpi

Diagram



ID: k2o1sk02
| 82.3 kB | .jpg | 352.778 x 193.322 mm - 1000 x 548 px - 72 dpi
| 3.2 kB | .png | 74.083 x 40.569 mm - 210 x 115 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220
The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.
Generated on: 08/11/2023, 1:15 pm