



EX-AZ 16-12ZVRK-3D

- 3 cable entries M 16 x 1.5
- 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

Data

Ordering data

Product type description	EX-AZ 16-12ZVRK-3D
Article number (order number)	101185377
EAN (European Article Number)	4030661324883
eCl@ss number, version 12.0	27-27-26-02
eCl@ss number, version 11.0	27-27-26-02
eCl@ss number, version 9.0	27-27-26-02
ETIM number, version 7.0	EC002592
ETIM number, version 6.0	EC002592

Approvals - Standards

Certificates	ATEX (Konformitätserklärung)
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Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN 60079-31
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Explosion protection zones	22
Explosion protection category	3D
Explosion protection designation	 II 3D Ex tc IIIC T90°C Dc X

General data

Coding level according to EN ISO 14119	Low
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	145 g

General data - Features

Increased latching 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 lifetime, minimum	1,000,000 Operations
Latching force	30 N
Positive break travel	8 mm
Positive break force, minimum	10 N

Actuating speed, maximum	1 m/s
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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 mm ²
Cable section, maximum	2.5 mm ²
Note	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	NO contact, NC contact
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
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Note

Note (General)	Individual coding available on request
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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

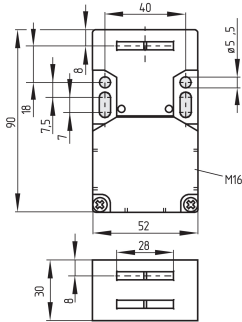
Product picture (catalogue individual photo)



ID: kexazf07

| 602.6 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
 | 90.2 kB | .png | 73.731 x 110.772 mm - 209 x 314 px - 72 dpi
 | 40.4 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi
 | 6.9 MB | .png | 169.249 x 253.915 mm - 1999 x 2999 px - 300 dpi

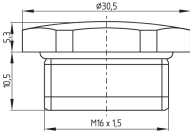
Dimensional drawing basic component



ID: 1az16g01

| 157.8 kB | .jpg | 352.425 x 473.428 mm - 999 x 1342 px - 72 dpi
 | 10.0 kB | .png | 73.731 x 99.131 mm - 209 x 281 px - 72 dpi

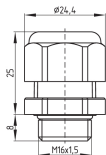
Dimensional drawing basic component



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

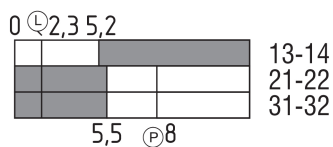
Dimensional drawing basic component



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

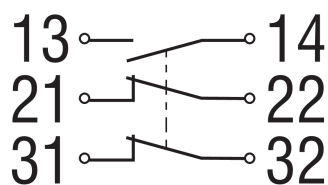
Switch travel diagram



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 Ltd., Sparrowhawk Close, WR14 1GL Malvern
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.
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