



## 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
- 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 16-12ZVRK-3D
Article number (order number)	101185377
EAN (European Article Number)	4030661324883
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

**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 <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
B <sub>10D</sub> Normally open contact (NO)	1,000,000 Operations
Note (B <sub>10D</sub> Normally open contact (NO))	at 10% I <sub>e</sub> and ohmic load

**Mechanical data**

Mechanical life, 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

## 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 <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
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	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

## 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)



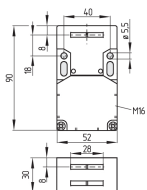
ID: kexazf07

| 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



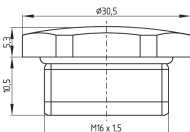
ID: 1az16g01

| 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

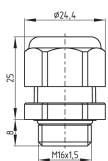


ID: 1xzm1g03

| 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

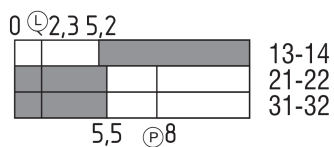


ID: 1xzm1g05

| 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



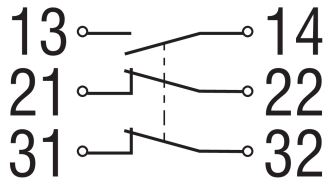
ID: kaz16s04

| 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 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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