

DATASHEET



EX-AZ 16-12ZVRK-M20-3D

- 3 cable entries M 20 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-M20-3D
Article number (order number)	101195484
EAN (European Article Number)	4030661361062
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	140 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 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
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Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
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	<p>Actuator must be ordered separately.</p> <p>Slot sealing plugs</p> <p>Including Ex-certified screwed cable gland and screw plug</p>
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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)



| 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

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

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

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

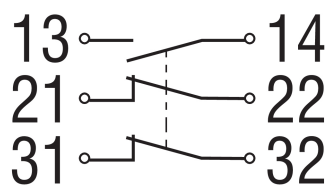
ID: kaz16s04

| 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

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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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