

## EX-AZM150SK-02/11RA-024-3G/D



Zone 2 and 22 (gas and dust atmospheres)  
Ex nR (gas) – Restricted Breathing  
Ex tc (dust) – Protection by enclosure  
Metal case  
Explosive protection metal cable gland M20 x 1.5  
Actuating head can be repositioned by 4x 90°  
Simple fitting, especially on 40 mm profiles

### Ordering data

Product type description	EX-AZM150SK-02/11RA-024-3G/D
Article number (order number)	157001219

### Approvals - Standards

Certificates	CCC NEPSI
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### Explosion protection

Explosion protection: regulations	EN IEC 60079-0, GB/T3836.1 EN IEC 60079-15, GB/T3836.8 EN IEC 60079-31, GB/T3836.31
Explosion protection zones	2 22
Explosion protection category	3G 3D
Explosion protection designation	Ex nR IIC T5 Gc Ex tc IIIC T80°C Dc

### General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Thermoplastic, Polyamide PA 6 GF, Stainless steel 1.4301
Gross weight	1,068 g

### General data - Features

Power to lock	Yes
Manual release	Yes
Number of actuating directions	2
Number of auxiliary contacts	1
Number of safety contacts	3

### Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B <sub>10D</sub> Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I <sub>e</sub> and ohmic load
Mission time	20 Year(s)

### Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3
Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

### Safety classification - Guard locking function

Performance Level, up to	e
Note (Performance Level)	Information for the safety classification of the guard locking function is documented in the "Operating instructions" or in "Operation and mounting" instructions.

### Mechanical data

Mechanical lifetime, minimum	1,000,000 Operations
Energy impact (protective case), maximum	7 J
Holding force F <sub>zh</sub> in accordance with EN ISO 14119	1,500 N
Holding force F <sub>max</sub> , maximum	1,950 N
Latching force, approx.	50 N
Positive break travel	10 mm
Positive break force per NC contact, minimum	10 N
Positive break force, minimum	40 N
Actuating speed, maximum	0.3 m/s
Type of the mounting	4x M5 Screws
Tightening torque of the mounting fixing screws	1.0 Nm

Note	Torx T25
Tightening torque of the fastening screws for the housing cover	0.5 Nm
Note	Torx T10

#### Mechanical data - Connection technique

Cable entry	3 x M20 x 1.5
Cable gland	⊗ II 2 G D, M20 x 1.5
Tightening torque of the cable gland	≥ 6.5 Nm
Termination	Screw terminals
Cable section, minimum	0.25 mm <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
Note	All indications including the conductor ferrules.
Allowed type of cable	solid single-wire solid multi-wire flexible

#### Mechanical data - Dimensions

Length of sensor	52 mm
Width of sensor	51 mm
Height of sensor	209 mm

#### Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature	-25 ... +55 °C
Storage and transport temperature	-40 ... +85 °C
Relative humidity, maximum	93 %
Note (Relative humidity)	non-condensing non-icing
Protection class	II

#### Ambient conditions - Insulation values

Rated insulation voltage U <sub>i</sub>	300 V
Overvoltage category	II
Degree of pollution	2

#### Electrical data

Thermal test current I <sub>the</sub>	5 A
Rated impulse withstand voltage U <sub>imp</sub>	4 kV
Max. fuse rating	6 A gG D-fuse
Rated control voltage U <sub>s</sub>	24 VDC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	8.5 W
Switching element	NC contact, NO contact
Switching principle	slow action, positive break NC contact
Maximale Schalzhäufigkeit	1,000 /h

Material of the contacts, electrical	Silver
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#### Electrical data - Magnet control

Magnet switch-on time	100 %
Test pulse duration, maximum	5 ms
Test pulse interval, minimum	50 ms

#### Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

#### Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

#### Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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#### Scope of delivery

Scope of delivery	Actuator must be ordered separately. Slot cover for dust-proof covering of the opening not in use
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#### Note

Note (Manual release)	For maintenance, installation, etc. By means of M5 triangular key
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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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