DATASHEET

EX-AZM 161SK-12/12RK-024 -3D

- Screw connection
- Ex-Zone 22
- 130 mm x 90 mm x 30 mm
- Clamping force 2000N
- 6 Contacts
- Manual release
- Interlock with protection against incorrect locking.
- cable entries 4 M 16 x 1.5

Data

Ordering data

Product type description	EX-AZM 161SK-12/12RK-024 -3D
Article number (order number)	101185420
EAN (European Article Number)	4030661324982
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

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 T80°C Dc X

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	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	470 g

General data - Features

Power to unlock	Yes
Manual release	Yes
Number of actuating directions	3
Number of auxiliary contacts	2
Number of safety contacts	4

Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B_{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B_{10D} Normally-open contact (NO)	1,000,000 Operations
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 the "Operation and mounting" instructions.

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Actuating play in direction of actuation	5.5 mm
Impact energy, maximum	1 J
Energy impact (protective case), maximum	7 J
Holding force F_{Zh} in accordance with EN ISO 14119	2,000 N
Holding force F_{max}, maximum	2,600 N
Latching force	30 N
Positive break travel	10 mm
Positive break force per NC contact, minimum	10 N
Actuating speed, maximum	1 m/s
Mounting	Screws
Type of the fixing screws	3x M6
Type of the screw head	Flat head screw
Tightening torque of the fastening screws for the housing cover	0.6 Nm
Note	The tightening sequence of the cover screws must be observed. This can be found in the attached drawing in the “Pictures” tab.
Tightening torque of the cable gland	3 Nm

Mechanical data - Connection technique

Termination	Screw terminals
Cable cross-section of the cable glands, minimum	5 mm
Cable cross-section of the cable glands, maximum	10 mm
Cable section, minimum	1 x 0.75 mm²
Cable section, maximum	1 x 1.5 mm²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length	30 mm
Width	130 mm
Height	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-10 ... +50 °C
Note (Relative humidity)	non-condensing non-icing

Ambient conditions - Insulation values

Rated insulation voltage U_i	250 VAC
Rated impulse withstand voltage U_{imp}	4 kV

Electrical data

Thermal test current	6 A
Rated control voltage	24 VAC
Rated control voltage	24 VDC

Required rated short-circuit current	1,000 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	2.5 A
Electrical power consumption, maximum	10 W
Switching element	NO contact, NC contact
Switching principle	slow action, positive break NC contact
Maximum switching frequency	1,000 /h
Material of the contacts, electrical	Silver

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 DC-13	24 VDC
Current, Utilisation category DC-13	2.5 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	2.5 A

Other data

Note (applications)	sliding safety guard removable guard hinged safety guard

Scope of delivery

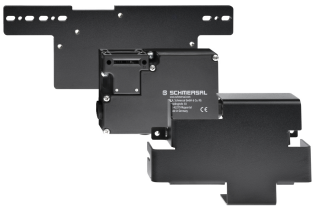
Scope of delivery	Actuator must be ordered separately. Including Ex-certified screwed cable gland and screw plug

Note

Note (Manual release)	For maintenance, installation, etc. For manual release using M5 triangular key, available as accessory

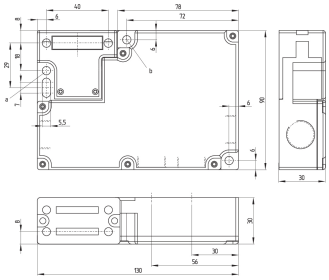
Pictures

Product picture (catalogue individual photo)



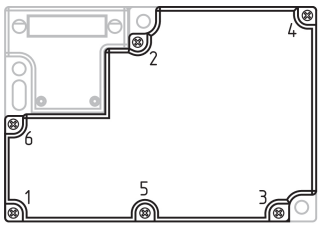
ID: kxazm1f06
| 197.6 kB | .jpg | 352.778 x 236.714 mm - 1000 x 671 px - 72 dpi
| 21.2 kB | .png | 74.083 x 49.742 mm - 210 x 141 px - 72 dpi
| 28.3 kB | .jpg | 123.472 x 82.903 mm - 350 x 235 px - 72 dpi

Dimensional drawing basic component



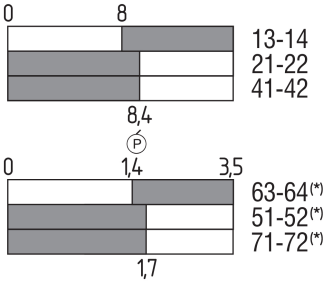
ID: kazm1g09
| 137.3 kB | .cdr |
| 4.5 kB | .png | 74.083 x 62.442 mm - 210 x 177 px - 72 dpi
| 139.6 kB | .jpg | 352.778 x 298.097 mm - 1000 x 845 px - 72 dpi

Dimensional drawing basic component



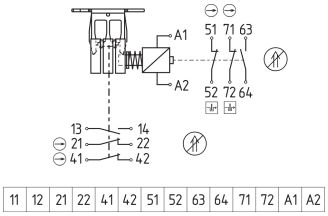
ID: 1azm1g30
| 93.0 kB | .jpg | 352.778 x 239.889 mm - 1000 x 680 px - 72 dpi

Switch travel diagram



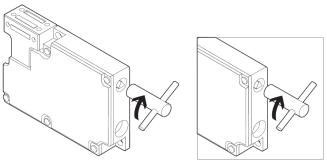
ID: kazm1s07
| 2.9 kB | .png | 74.083 x 63.853 mm - 210 x 181 px - 72 dpi
| 102.8 kB | .jpg | 352.778 x 304.8 mm - 1000 x 864 px - 72 dpi

Diagram



ID: kazm1k29
| 80.8 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi
| 111.9 kB | .jpg | 352.778 x 227.894 mm - 1000 x 646 px - 72 dpi
| 4.8 kB | .png | 74.083 x 47.978 mm - 210 x 136 px - 72 dpi

Operating principle



ID: kazm1a41
| 105.3 kB | .jpg | 352.778 x 170.744 mm - 1000 x 484 px - 72 dpi
| 13.0 kB | .png | 74.083 x 35.983 mm - 210 x 102 px - 72 dpi

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