



AZM 161SK-12/12KA-024

- Thermoplastic enclosure
- Double-insulated
- Interlock with protection against incorrect locking.
- 130 mm x 90 mm x 30 mm
- 6 Contacts
- Long life

Data

Ordering data

Product type description	AZM 161SK-12/12KA-024
Article number (order number)	101178837
EAN (European Article Number)	4030661311067
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

Approvals - Standards

Certificates	cULus CCC
--------------	--------------

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	425 g

General data - Features

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
Note	at 10% I _e 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 the "Operation and mounting" instructions.

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Actuating play in direction of actuation	5.5 mm
Holding force F_{Zh} in accordance with EN ISO 14119	2,000 N
Holding force F_{max} , maximum	2,600 N
Positive break travel	10 mm
Positive break force per NC contact, minimum	10 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	3x M6

Mechanical data - Connection technique

Cable entry	4 x M16 x 1,5
Termination	Screw terminals
Cable section, minimum	0.25 mm ²

Cable section, maximum	1.5 mm ²
Allowed type of cable	solid single-wire solid multi-wire flexible

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	130 mm
Height of sensor	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-30 ... +60 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Note (Relative humidity)	non-condensing non-icing
Protection class	II
Permissible installation altitude above sea level, maximum	2,000 m

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/DC

Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	10 W
Switching element	NO contact, NC contact
Switching principle	slow action, positive break NC contact
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 AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	2.5 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	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.
-------------------	--------------------------------------

Note

Note (General)	Interlocks with the power to lock principle may only be used in special cases after a thorough evaluation of the accident risk, since the guarding device can immediately be opened on failure of the electrical power supply or when the main switch is opened.
----------------	--

Ordering code

Product type description:
AZM161 (1)-(2)(3)K(4)-(5)/(6)-(7)(8)

(1)

SK	Screw connection
CC	Cage clamps
ST	Connector plug M12

(2)

11/03	Magnet: 1 NO contact, 1 NC contact / Actator: 3 NC contacts with connector plug
12/03	Magnet: 1 NO contact, 2 NC contact / Actator: 3 NC contacts
12/11	Magnet: 1 NO contact, 2 NC contacts / Actator: 1 NO contact, 1 NC contact with connector plug
11/12	Magnet: 1 NO contact, 1 NC contacts / Actator: 1 NO contact, 2 NC contact with connector plug
12/12	Magnet: 1 NO contact, 2 NC contacts / Actator: 1 NO contact, 2 NC contacts

(3)		
without		Latching force 5 N
R		Latching force 30 N
(4)		
without		Power to unlock
A		Power to lock
(5)		
without		Lateral manual release
ED		Manual release on the cover side
EU		Manual release on the back side
(6)		
T		Lateral emergency exit
TD		Emergency exit on the cover side
TU		Emergency exit on the back side
N		Emergency release
(7)		
024		Us: 24 VAC/DC
110/230		Us: 110/230 VAC
(8)		
without		without LED
G		with LED (only for Us: 24 VAC/DC)

Pictures

Product picture (catalogue individual photo)



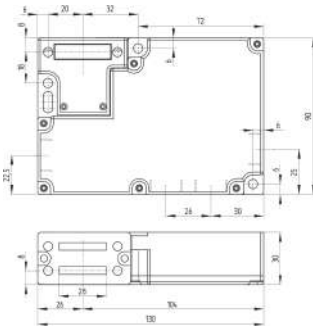
ID: kazm1f83

| 361.3 kB | .jpg | 352.778 x 259.997 mm - 1000 x 737 px - 72 dpi

| 34.7 kB | .png | 74.083 x 54.681 mm - 210 x 155 px - 72 dpi

| 48.9 kB | .jpg | 123.472 x 91.017 mm - 350 x 258 px - 72 dpi

Dimensional drawing basic component



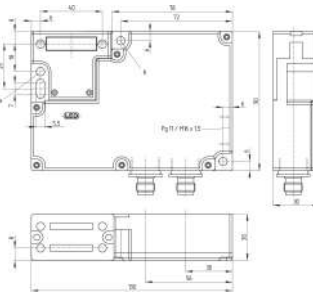
ID: kazm1g20

| 39.1 kB | .cdr |

| 4.8 kB | .png | 73.731 x 75.847 mm - 209 x 215 px - 72 dpi

| 154.6 kB | .jpg | 352.425 x 362.303 mm - 999 x 1027 px - 72 dpi

Dimensional drawing basic component



ID: Kazm1g18

| 158.1 kB | .jpg | 352.778 x 315.031 mm - 1000 x 893 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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.

Generated on: 09/12/2023, 10:39 am