SCHMERSAL
THE DNA OF SAFETY

AZM 161ST-12/11KA-024



- **Long life**
- **6 Contacts**
- **Manual release**
- **Double-insulated**
- **130 mm x 90 mm x 30 mm**
- **Thermoplastic enclosure**
- **Large wiring compartment**
- **2 cable entries M 16 x 1.5**
- **2 Connector M12, 4- and 8-poles**
- **Interlock with protection against incorrect locking.**

Data

Ordering data	
	AZM 161ST-12/11KA-024
	101192426
EAN (European Article Number)	4030661352336
eCl@ss number, Version 9.0	27-27-26-03
Approval - Standards	
	cULus CCC EAC
General data	
	AZM 161
	EN 60947-5-1 BG-GS-ET-19
Coding level according to ISO 14119	Low
Active principle	electromechanical
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the contacts, electrical	Silver
Gross weight	462 g
General data - Features	
Power to lock	Yes
Manual release	Yes

Number of actuating directions	3
Number of auxiliary contacts	2
Number of safety contacts	3
Safety appraisal	
	ISO 13849-1
Mission Time	20 Year(s)
Safety appraisal - Safety outputs	
B10d Normally-closed contact (NC)	2,000,000 Operations
B10d Normally open contact (NO)	1,000,000 Operations
Mechanical data	
Mechanical life, minimum	1,000,000 Operations
Actuating play in direction of actuation	5.5 mm
Clamping force in accordance with ISO14119 F zh	2,000 N
Latching force	5 N
positive break travel	10 mm
Positive break force, minimum	10 N
Actuating speed, maximum	2 m/s
Mechanical data - Connection technique	
Terminal Connector	Connector plug M12, 4-pole, (A-coding) Connector plug M12, 8-pole, (A-coding)
Mechanical data - Dimensions	
Height of sensor	90 mm
Length of sensor	30 mm
Width of sensor	130 mm
Ambient conditions	
Protection class	IP 67 to IEC/EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C
Ambient conditions - Insulation value	
Rated impulse withstand voltage	4 kV
Electrical data	
Thermal test current	6 A

Rated control voltage	24 VAC/DC
Required rated short-circuit current to EN 60947-5-1	1,000 A
Electrical power consumption, maximum	10 W
Switching element	NO contact, NC contact
Switching principle	Creep circuit element
Switching frequency	1,000 /h
Electrical data - Safety contacts	
Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	60 VDC
Current, Utilisation category DC13	2 A
Electrical data - Auxiliary contacts	
Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	60 VDC
Current, Utilisation category DC13	2 A
Other data	
Note (applications)	sliding safety guard removable guard hinged safety guard
Scope of delivery	
Included in delivery	Actuators must be ordered separately.
Notes	
Note (Manual release)	For maintenance, installation, etc. For manual release using M5 triangular key, available as accessory
Ordering code	

Product type description:

AZM 161 (1)-(2)(3)K(4)-(5)-(6)(7)

(1)

SK Screw connection

CC Cage clamps

ST Connector M12, 8 and 4 pole (only for Us: 24 VAC/DC)

(2)

11/03 1 NO contacts / 4 NC contacts (conector version)

12/03 1 NO contacts/5 NC contact

12/11 2 NO contacts / 3 NC contacts (conector version)

11/12 2 NO contacts / 3 NC contacts (conector version)

12/12 2 NO contacts/4 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 rear side

T Lateral emergency exit

TD Emergency exit on the cover side

TU Emergency exit on the rear side

N Emergency release

(6)

024 Us: 24 VAC/DC

110/230 Us: 110/230 VAC

(7)

G with LED (only for Us: 24 VAC/DC)

Pictures

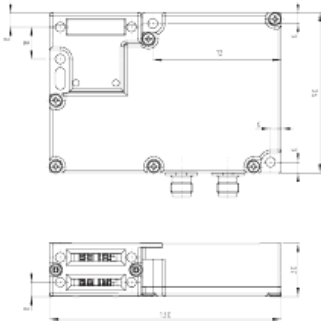
Photo/Product/Catalogue



ID: kazm1f23

| 36,0 kB | .png | 74.083 x 61.031 mm - 210 x 173 Pixel - 72 dpi
| 412,8 kB | .jpg | 352.778 x 291.394 mm - 1000 x 826 Pixel - 72 dpi

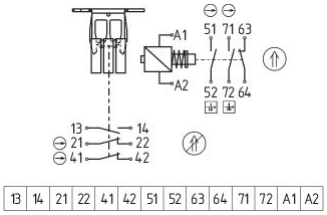
Dimension/Product/Basic



ID: kazm1g17

| 5,1 kB | .png | 74.083 x 74.789 mm - 210 x 212 Pixel - 72 dpi
| 150,9 kB | .jpg | 352.425 x 355.953 mm - 999 x 1009 Pixel - 72 dpi
| 72,1 kB | .cdr |

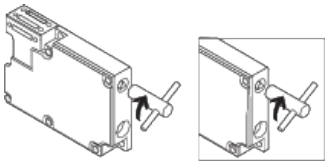
Graphic/Product/Contact



ID: kazm1k30

| 111,7 kB | .jpg | 352.778 x 227.542 mm - 1000 x 645 Pixel - 72 dpi

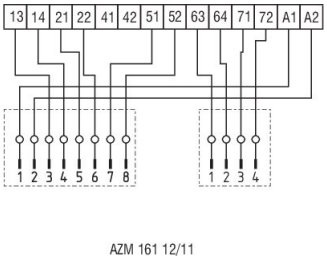
Illistration/Product/Function



ID: kazm1a41

| 13,0 kB | .png | 74.083 x 35.983 mm - 210 x 102 Pixel - 72 dpi
| 105,3 kB | .jpg | 352.778 x 170.744 mm - 1000 x 484 Pixel - 72 dpi
| 48,4 kB | .cdr |

Graphic/Product/Wiring



ID: kazm1k96

| 26,2 kB | .cdr |
| 128,8 kB | .jpg | 352.778 x 276.931 mm - 1000 x 785 Pixel - 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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