



AZM 161Z-ST1-FB-RT

- Long life
- 6 Contacts
- Double-insulated
- 130 mm x 90 mm x 30 mm
- Thermoplastic enclosure
- connector plug M12, 8-pole
- Interlock with protection against incorrect locking.
- Device version for connection to a Safety-Field-Box SFB

Data

Ordering data

AZM 161Z-ST1-FB-RT

103034787

EAN (European Article Number)

4030661541761

Approval - Standards

cULus

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

467.1 g

General data - Features

Power to unlock

Yes

Emergency exit

Yes

Number of actuating directions

3

Number of auxiliary contacts

1

Number of safety contacts	2
---------------------------	---

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	30 N
positive break travel	10 mm
Positive break force, minimum	20 N
Actuating speed, maximum	2 m/s

Mechanical data - Connection technique

Terminal Connector	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	0.8 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	24 VDC
Current, Utilisation category DC13	2.5 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 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 (Emergency exit)	For cases of danger Actuation from within the hazardous area
-----------------------	---

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: kazm1f72

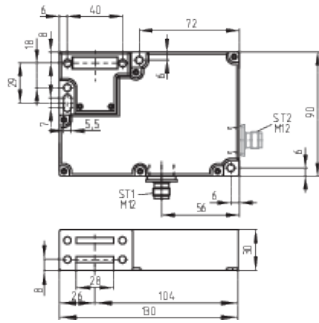
| 27,0 kB | .png | 74.083 x 55.033 mm - 210 x 156

Pixel - 72 dpi

| 269,2 kB | .jpg | 352.778 x 262.819 mm - 1000 x 745

Pixel - 72 dpi

Dimension/Product/Basic



ID: 1azm1g27

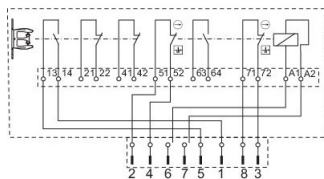
| 11,8 kB | .png | 73.731 x 74.436 mm - 209 x 211

Pixel - 72 dpi

| 155,5 kB | .jpg | 352.778 x 355.953 mm - 1000 x

1009 Pixel - 72 dpi

Graphic/Product/Contact

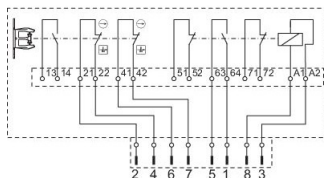


ID: kazm1k123

| 120,8 kB | .jpg | 352.778 x 192.264 mm - 1000 x 545

Pixel - 72 dpi

Graphic/Product/Contact

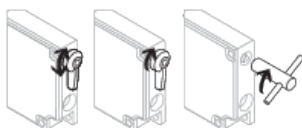


ID: kazm1k122

| 109,2 kB | .jpg | 352.778 x 193.675 mm - 1000 x 549

Pixel - 72 dpi

Illustration/Product/Function



ID: 1azm1a47

| 12,5 kB | .png | 74.083 x 51.506 mm - 210 x 146

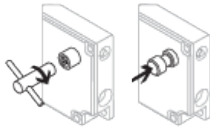
Pixel - 72 dpi

| 107,3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697

Pixel - 72 dpi

| 32,7 kB | .cdr |

Illustration/Product/Function



ID: lazmla53

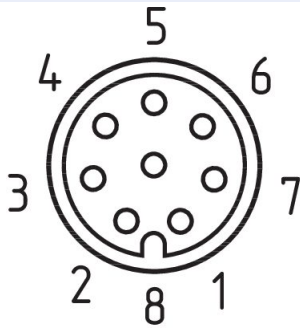
| 32,1 kB | .cdr |

| 84,1 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695

Pixel - 72 dpi

| 9,9 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

Graphic/Product/PIN



ID: km23-k8a

| 18,0 kB | .cdr |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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 072021-01-30T19:16:07+01:000701Europe/BerlinSat, 30 Jan 2021 19:16:07

+010007pmSaturday.30pm31Europe/BerlinCET1601Europe/BerlinJanuary2021Sat, 30 Jan 2021 19:16:07
+010001pm31