

General data - Features

Power to unlock	Yes
Number of actuating directions	1
Number of auxiliary contacts	2
Number of safety contacts	2
Number of guard doors	1

Safety appraisal

Standards	ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	2,000,000 Operations
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Mechanical data

Mechanical life, minimum	1,000,000 Operations
Clamping force in accordance with ISO14119 F_{zh}	3,500 N
Latching force, minimum	150 N
Latching force, maximum	400 N
positive break travel	5 mm
Positive break force, minimum	15 N
Actuating speed, maximum	0.2 m/s

Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable section, minimum	2 x 0.75 mm ²
Cable section, maximum	2 x 2.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Height of sensor	100 mm
Length of sensor	46.5 mm
Width of sensor	130 mm

Ambient conditions

Protection class	IP 67 to IEC/EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+50 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage 4 kV

Electrical data

Thermal test current 6 A
Rated control voltage 24 VAC/DC
Utilisation category AC-15 230 VAC
Utilisation category AC-15 4 A
Utilisation category DC-13 24 VDC
Utilisation category DC-13 1 A
Electrical power consumption, maximum 10 W
Switching element NO contact, NC contact
Switching principle Creep circuit element

Other data

Note (applications) sliding safety guard
hinged safety guard

Ordering code

Product type description:

AZM 415-(1)(2)PK(3)-(4) (5)(6)-(7)

(1)

11/11 2 NC contacts/2 NO contacts

11/02 3 NC contacts / 1 NO contacts

11/20 1 NC contacts / 3 NO contacts

02/11 3 NC contacts / 1 NO contacts

02/20 2 NC contacts / 2 NO contacts

02/02 4 NC contact

(2)

X Protection class IP54

Z Protection class IP67

(3)

without Power to unlock

A Power to lock

(4)

STR Connector M23 right

ST Connector M23 bottom

(5)

without	Without manual release
E	Manual release using triangular key
F	with triangular key (secured with locking screw)
FE	using triangular key
RS	Manual release using key
T	Emergency exit using latched pushbutton (power to unlock only)
TE	Emergency exit using latched pushbutton and manual release, mounting outside (power to unlock only)
TEI	Emergency exit using latched pushbutton and manual release, mounting inside (power to unlock only)
NS	Emergency release using lock button

(6)

24VAC/DC Us: 24 VAC/DC

110VAC Us: 110 VAC

230VAC Us: 230 VAC

(7)

1637 Gold-plated contacts

(1)

A Power to lock

(2)

ST Connector M23 right

without Power to unlock

STR Connector M23 bottom

(3)

without Without manual release

E Manual release using triangular key (only for power to unlock principle)

(4)

1637 Gold-plated contacts

Pictures

