

Datasheet - AZM 415-11/11ZPKA 110 VAC

Solenoid interlock / AZM 415



(Minor differences between the printed image and the original product may exist!)

- Metal enclosure
- Interlock with protection against incorrect locking.
- Robust design
- Long life
- 2 cable entries M 20 x 1.5
- Cut clamp termination
- Adjustable ball latch to 400 N
- 2 switches in one enclosure
- Problem-free opening of stressed doors by means of bell-crank system
- Ex version available
- 130 mm x 100 mm x 46,5 mm

Ordering details

Product type description	AZM 415-11/11ZPKA 110 VAC
Article number	101167207
EAN Code	4030661218212
eCl@ss	27-27-26-03

Approval


Approval	 BG  USA/CAN  CCC
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Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	2.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{cp} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	AZM 415
Standards	EN 60947-5-1, BG-GS-ET-19

Compliance with the Directives (Y/N) 	Yes
Number of guard doors	1
Number of actuating directions	1
Active principle	electromechanical
Duty cycle ED	Magnet 100 %
Materials	
- Material of the housings	Aluminium
- Material of the contacts	Silver
Housing coating	painted
Weight	905

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	2 x 0,75 mm ²
- Max. Cable section	2 x 2.5 mm ²
Mechanical life	> 1.000.000 operations
notice	All indications about the cable section are including the conductor ferrules.
Emergency unlocking device (Y/N)	No
Manual release (Y/N)	No
Emergency release (Y/N)	No
Latching force	150 N ... 400 N
Positive break force	15 N min.
positive break travel	5
Clamping force F	3500 N
Max. Actuating speed	0,2 m/s

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25 °C
- Max. environmental temperature	+50 °C
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	2
Number of safety contacts	2
Power to unlock	No
Power to lock	Yes
Rated control voltage U _s	110 V AC
Power consumption	max. 10 W
Rated impulse withstand voltage U _{imp}	4 kV
Rated insulation voltage U _i	250 V
Thermal test current I _{the}	6 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 1 A
Max. fuse rating	6 A gG D-fuse

ATEX

Explosion protection categories for gases
Explosion protected category for dusts

None
None

Miscellaneous data

Applications



sliding safety guard



hinged safety guard

Dimensions

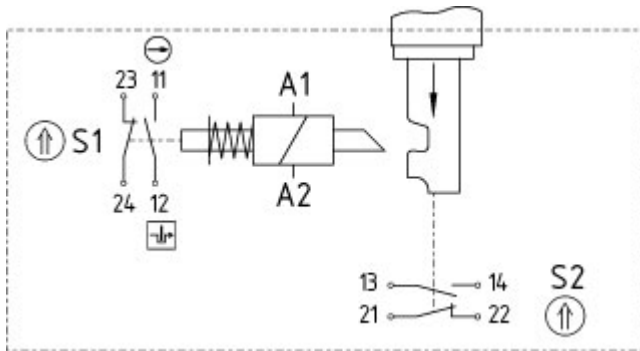
Dimensions of the sensor

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

notice - Dimensional drawing

A setting screw Ball latch

Diagram



Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: AZM 415-11/11ZPKA 110 VAC-**1637**

...-**1637**

0,3 µm gold-plated contacts

Ordering code

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

(1)

11/11

2 Opener (NC) / Normally open contact (NO) 2

11/02	3 Opener (NC) / 1 Normally open contact (NO)
11/20	1 Opener (NC) / 3 Normally open contact (NO)
02/11	3 Opener (NC) / 1 Normally open contact (NO)
02/20	2 Opener (NC) / 2 Normally open contact (NO)
02/02	4 Opener (NC)
(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	using triangular key (secured with locking screw)
FE	using triangular key
RS	Manual release with key
T	Emergency exit using latched pushbutton (<i>only for Power to unlock</i>)
TE	Emergency exit and Manual release, Mounting outside (<i>only for Power to unlock</i>)
TEI	Emergency exit and Manual release, Mounting inside (<i>only for Power to unlock</i>)
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
	AZM 415 for double doors
	AZM 415-33ZPDK(1)(2) (3)(4)
(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 (<i>only for Power to unlock</i>)
(4)	
1637	gold-plated contacts

Documents

Operating instructions and Declaration of conformity (cn) 577 kB, 24.09.2018

Code: mrl_azm415xx-xx_cn

Operating instructions and Declaration of conformity (es) 452 kB, 24.09.2018

Code: mrl_azm415xx-xx_es

Operating instructions and Declaration of conformity (nl) 491 kB, 24.09.2018

Code: mrl_azm415xx-xx_nl

Operating instructions and Declaration of conformity (fr) 468 kB, 24.09.2018

Code: mrl_azm415xx-xx_fr

Operating instructions and Declaration of conformity (pl) 502 kB, 24.09.2018

Code: mrl_azm415xx-xx_pl

Operating instructions and Declaration of conformity (it) 462 kB, 24.09.2018

Code: mrl_azm415xx-xx_it

Operating instructions and Declaration of conformity (jp) 508 kB, 24.09.2018

Code: mrl_azm415xx-xx_jp

Operating instructions and Declaration of conformity (en) 541 kB, 18.12.2018

Code: mrl_azm415xx-xx_en

Operating instructions and Declaration of conformity (da) 384 kB, 08.08.2012

Code: mrl_azm415xx-xx_da

Operating instructions and Declaration of conformity (pt) 467 kB, 24.09.2018

Code: mrl_azm415xx-xx_pt

Operating instructions and Declaration of conformity (de) 510 kB, 18.12.2018

Code: mrl_azm415xx-xx_de

BG-test certificate (en) 1 MB, 08.01.2018

Code: z_i41p02

BG-test certificate (de) 1 MB, 08.01.2018

Code: z_i41p01

CCC certification (cn) 2 MB, 17.01.2018

Code: q_azmp05

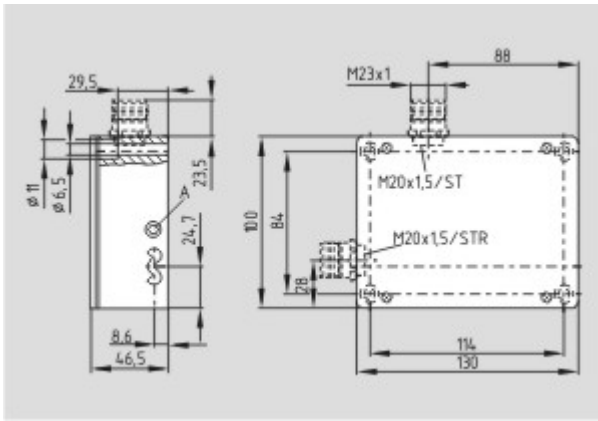
CCC certification (en) 2 MB, 17.01.2018

Code: q_azmp04

notice (de, en, fr) 108 kB, 28.02.2007

Code: s_zm4p01

Images



Dimensional drawing (basic component)

System components

Actuator



1128545 - AZ/AZM 415-B1

- For sliding doors
- Actuators with return spring
- Tolerates up to max. 6 mm overtravel



1144796 - AZ/AZM 415-B2

- Particularly suitable for hinged guards
- For very small actuating radii in line with the plane of the actuator



1144797 - AZ/AZM 415-B3

- Particularly suitable for hinged guards
- For very small actuating radii at 90° to the plane of the actuator



101142540 - AZ/AZM 415-B4PS

- For sliding doors
- with locking bolt and ball latch

Door-handle system



AZM 415-ST30

- Latching handle
- Suitable for all types of guard
- einsetzbar in Verbindung mit EX-AZM 415

Accessories



101100887 - TRIANGULAR KEY TK-M5

- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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