13.02.2019

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Datasheet - AZM 415-02/11ZPK 24 VAC/DC

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

🕱 SCHMERSAL

- Ex version available
- 130 mm x 100 mm x 46,5 mm

Ordering details

Product type description Article number EAN Code eCl@ss AZM 415-02/11ZPK 24 VAC/DC 101174507 4030661331928 27-27-26-03



Classification

Approval

Approval

Standards	
B10d Normally-closed contact (NC)	
Mission time	
notice	



 $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oycle}}$

Global Properties

Permanent light Standards

Compliance with the Directives (Y/N) CE	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	902

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	2 x 0,75 mm²
- Max. Cable section	2 x 2.5 mm²
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

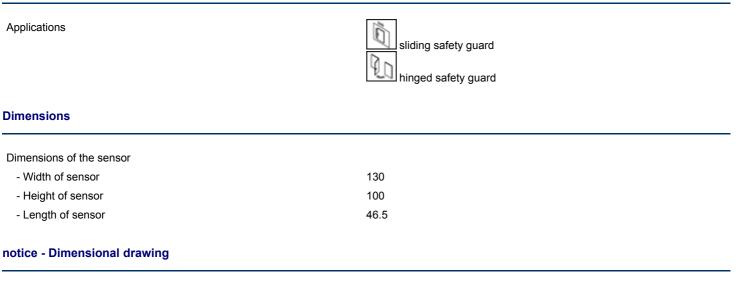
Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+50 °C
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	1
Number of safety contacts	3
Power to unlock	Yes
Power to lock	No
Rated control voltage Us	24 V AC/DC
Power consumption	max. 10 W
Rated impulse withstand voltage Uimp	4 kV
Rated insulation voltage Ui	250 V
Thermal test current Ithe	6 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 1 A
Max. fuse rating	6 A gG D-fuse

None None

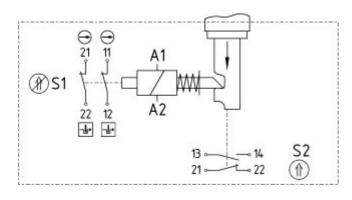
Miscellaneous data



А

setting screw Ball latch

Diagram



Note Diagram

positive break NC contact
(1) 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 415-02/11ZPK 24 VAC/DC-**1637**

...-1637

0,3 µm gold-plated contacts

Ordering code

AZM 415-(1)(2)PK(3)-(4	(4) (5)(6)-(7))
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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
	1 Ower 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
т	Emergency exit using latched pushbutton (only for Power to unlock)
TE	Emergency exit and Manual release, Mounting outside (only for Power to unlock)
TEI	Emergency exit and Manual release, Mounting inside (only for Power to unlock)
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)	5
A	Power to lock
(2)	
ST	connector M23 right
without	
Without	Power to unlock
STR	Power to unlock connector M23 bottom
STR	
STR (3)	connector M23 bottom
STR (3) without E	connector M23 bottom without Manual release
STR (3) without E (4)	connector M23 bottom without Manual release Manual release using triangular key (only for Power to unlock)
STR (3) without E	connector M23 bottom without Manual release

Documents

Operating instructions and Declaration of conformity (cn) 577 kB, 24.09.2018 Code: mrl_azm415xx-xx_cn 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

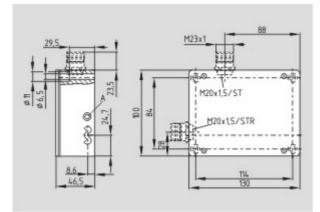
BG-test certificate (de) 1 MB, 08.01.2018 Code: z_i41p01

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 Por sliding dors Actuators with refurs spring Tolerates up to max. 6 mm overtravel Particularly suitable for hinged guards For very smal actuating radii in line with the plane of the actuator Particularly suitable for hinged guards For very smal actuating radii at 90° to the plane of the actuator Particularly suitable for hinged guards For very smal actuating radii at 90° to the plane of the actuator Particularly suitable for hinged guards For very smal actuating radii at 90° to the plane of the actuator Particularly suitable for hinged guards For very smal actuating radii at 90° to the plane of the actuator



• For sliding doors

• with locking bolt and ball latch

Door-handle system



AZM 415-STS30

- 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.

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:48:05h Kasbase 3.3.0.F.64I