13.02.2019

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Datasheet - AZM 415-11/11ZPKF 24 VAC/DC

Solenoid interlock / AZM 415

Preferred typ



(Minor differences between the printed image and the original product may exist!) $\label{eq:magnetized}$

SCHMERSAL

- 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
- Manual release
- 141 mm x 100 mm x 56,5 mm

Ordering details

Product type description Article number EAN Code eCl@ss AZM 415-11/11ZPKF 24 VAC/DC 101167209 4030661218236 27-27-26-03

Approval

Approval



Classification

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

Compliance with the Directives (Y/N) $C \epsilon$	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	920

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 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)	Yes
- using triangular key	
- secured with locking screw	
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)
с С	
Switching principle	Creep circuit element
Number of auxiliary contacts	2
Number of safety contacts	2
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

Explosion protection categories for gases	
Explosion protected category for dusts	

Miscellaneous data

None None

D sliding safety guard hinged safety guard

Dimensions

Applications

Dimensions of the sensor	
- Width of sensor	141
- Height of sensor	100
- Length of sensor	56.5

notice

• A chain secures the sealing plug against loss (Protection class IP67)

Manual release

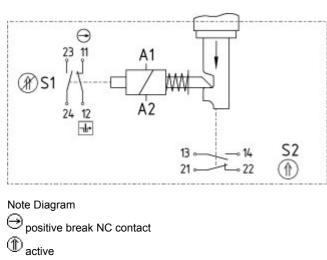
- Manual release by means of M5 triangular key
- Manual release can be carried out using a M5 triangular key
- M5 triangular key, available as accessory
- Only used on units with power to unlock principle

notice - Dimensional drawing

А

setting screw Ball latch

Diagram



no active

•----• Normally-open contact

o_____ Normally-closed contact

Ordering suffix

...-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) 1 Opener (NC) / 3 Normally open contact (NO) 11/20 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) Х Protection class IP54 Ζ Protection class IP67 (3) Power to unlock without Α Power to lock (4) STR connector M23 right ST connector M23 bottom (5) without without Manual release Е 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) ΤE 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) Α 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)
(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

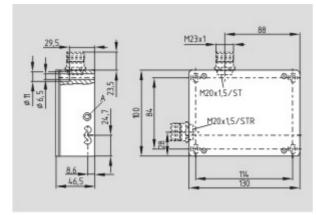
BG-test certificate (de) 1 MB, 08.01.2018 Code: z_i41p01

CCC certification (cn) 2 MB, 17.01.2018 Code: q_azmp05

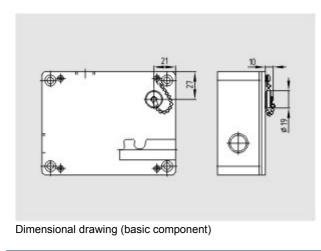
CCC certification (en) 2 MB, 17.01.2018 Code: q_azmp04

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 smal actuating radii in line with the plane of the actuator



1144797 - AZ/AZM 415-B3

- Particularly suitable for hinged guards
- · For very smal 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-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 - 14:48:27h Kasbase 3.3.0.F.64I