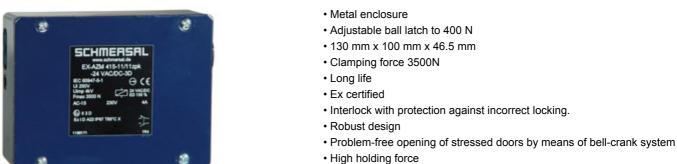
11.06.2018

11:52:10h

SCHMERSAL

Datasheet - EX-AZM 415-11/11ZPKA-24VAC/DC-3D

Solenoid interlock / EX-AZM 415



• 2 cable entries M 20 x 1.5

- 2 switches in one enclosure
- Ex-certified screwed cable gland

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

Ordering details

EX-AZM 415-11/11ZPKA-24VAC/DC-3D
LX-AZIM 413-11/112FIX-24VAC/DC-3D
EX-AZM 415-11/11ZPKA-24VAC/DC-3D
27-27-26-03
ATEX
EN ISO 13849-1
2.000.000
20 Years
$MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$
$n_{op} = \frac{d_{ap} \times h_{op} \times 3600 \text{ s/h}}{t_{oycle}}$
-

Global Properties

Permanent light Standards	EX-AZM 415 EN 60079-0, EN 60079-31, EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) C C	Yes
Number of actuating directions	1
Active principle	electromechanical
Duty cycle ED	Magnet 100 %
Materials	
- Material of the housings	Aluminium
- Material of the contacts	Silver

Mechanical data

Design of electrical connection	Screw connection
Cable cross-section of the cable glands	
- Min. Cable cross-section of the cable glands	Ø 7
- Max. Cable cross-section of the cable glands	Ø 12
Cable section	
- Min. Cable section	0,75
- Max. Cable section	2.5
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	80 … 400 (adjustable)
Positive break force	15
positive break travel	5
Clamping force F	3500 N
Impact energy	4 J
Max. Actuating speed	1

Ambient conditions

Ambient temperature		
- Min. environmental temperature	-10	
- Max. environmental temperature	+50	
Protection class	IP67	

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 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
Max. fuse rating	6 A gG D-fuse

ATEX

EX-marking	EX II 3D Ex tc IIIC T90°C Dc X
Explosion protection categories for gases	None
Explosion protection Zones for gases	None
Explosion protected category for dusts	3D
Explosion protection Zones for dusts	22

Dimensions

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

Included in delivery

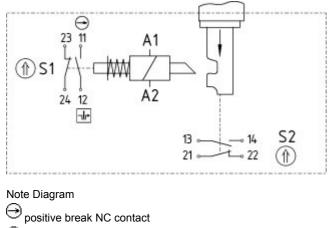
Actuators must be ordered separately.

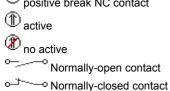
Including Ex-certified screwed cable gland and screw plug

notice - Dimensional drawing

Α	setting screw Ball latch
Keywords	
Keywords	Ex, EEx, ATEX, Ex AZM415, Ex AZM415, AZM415 Ex, AZM415ex, AZM415ex, ATEX AZM415

Diagram





Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: EX-AZM 415-11/11ZPKA-24VAC/DC-3D**-1637**

...-1637

0,3 µm gold-plated contacts

Ordering code

(1)	
11/11	2 Opener (NC) / 2 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)	
without	Power to unlock
Α	Power to lock
(3)	
1637	gold-plated contacts

Documents

Operating instructions and Declaration of conformity (it) 378 kB, 13.10.2017 Code: mrl_ex-azm415_it

Operating instructions and Declaration of conformity (da) 284 kB, 24.09.2015 Code: mrl_ex-azm415_da

Operating instructions and Declaration of conformity (jp) 572 kB, 18.01.2012 Code: mrl_ex-azm415_jp

Operating instructions and Declaration of conformity (pt) 382 kB, 13.10.2017 Code: mrl_ex-azm415_pt

Operating instructions and Declaration of conformity (de) 363 kB, 28.09.2017 Code: mrl_ex-azm415_de

Operating instructions and Declaration of conformity (es) 381 kB, 10.10.2017 Code: mrl_ex-azm415_es

Operating instructions and Declaration of conformity (sv) 282 kB, 17.02.2014 Code: mrl_ex-azm415_sv

Operating instructions and Declaration of conformity (fr) 384 kB, 13.10.2017 Code: mrl_ex-azm415_fr

Operating instructions and Declaration of conformity (en) 370 kB, 28.09.2017 Code: mrl_ex-azm415_en

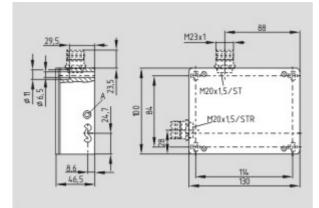
Operating instructions and Declaration of conformity (nl) 273 kB, 25.07.2013 Code: mrl_ex-azm415_nl

Operating instructions and Declaration of conformity (pl) 417 kB, 01.02.2018 Code: mrl_ex-azm415_pl

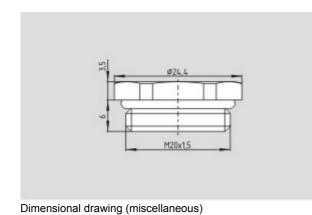
Brochure (de) 7 MB, 19.10.2016 Code: b_atep01_de

Brochure (de) 7 MB, 25.02.2011 Code: b_atep01

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



1144797 - AZ/AZM 415-B3

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



1144796 - AZ/AZM 415-B2

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