28.07.2015

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Datasheet - AZ 415-02/11ZPK

Safety switch with separate actuator / AZ 415

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Metal enclosure

- Spring-loaded actuators
- Long life
- · High level of contact reliability with low voltages and currents
- Adjustable ball latch to 400 N
- 2 cable entries M 20 x 1.5
- 2 switches with different actuating functions in one enclosure
- 84,6 mm x 103,6 mm x 46,5 mm

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

Ordering details

Product type description Article number EAN code eCl@ss

Approval

Approval

AZ 415-02/11ZPK 101154115 4030661171050 27-27-26-02



Classification

Standards B10d Opener (NC) B10d Normally open contact (NO) - notice Mission time notice EN ISO 13849-1 2.000.000 1.000.000 at 10% le and ohmic load 20 Years MTTF_d = $\frac{B_{100}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{0.000 \text{ s/h}}$

t cycle

Global Properties

Product name
Standards
Compliance with the Directives (Y/N) C ϵ
Number of guard doors
Materials
- Material of the housings
- Material of the contacts
Housing coating
Weight

Mechanical data

Cable section

Mechanical life

Latching force Positive break force

notice

Design of electrical connection

- Min. Cable section - Max. Cable section

higher Latching force (Y/N)

Silver
painted
495 g
Screw connection
2 x 0,75 mm²
2 x 1.5 mm²
> 1.000.000 operations
All indications about the cable section are including the conductor ferrules.
Yes
80 N 400 N

AZ 415

Yes 1 piece

Aluminium

31 N min.

3.8 mm

0,2 m/s

EN 60947-5-1, BG-GS-ET-15

Ambient conditions

positive break travel

Max. Actuating speed

Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+70 °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 piece
Number of safety contacts	2 piece
Rated impulse withstand voltage Uimp	4 kV
Rated insulation voltage U	250 V
Thermal test current Ithe	6 A
Utilisation category	AC-15: 230 V / 4 A; DC-13: 24 V / 4 A
Max. fuse rating	6 A gG D-fuse To DIN EN 60269-1

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

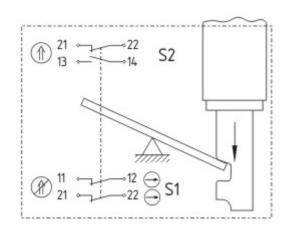
f the sensor

- Width of sensor
- Height of sensor
- Length of sensor

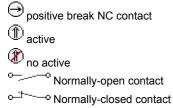
Included in delivery

Actuators must be ordered separately.

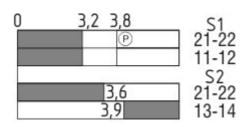
Diagram



Note Diagram



Switch travel diagram



Notes Switch travel diagram



Positive opening sequence/- angle VS adjustable range of NO contact VÖ adjustable range of NC contact N after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZ 415-02/11ZPK **-1637**

84.6 mm 103.6 mm 46.5 mm

Ordering code

AZ 415-(<mark>1)</mark> ZPK <mark>-(2)</mark>	
(1)	
02/11	2 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
02/02	2 Opener (NC) / 2 Opener (NC)
02/20	2 Opener (NC) / 2 Normally open contact (NO)
11/11	1 Normally open contact (NO), 1 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
(2)	
1637	gold-plated contacts

Documents

Operating instructions and Declaration of conformity (es) 269 kB, 04.05.2011 Code: mrl_az415_es

Operating instructions and Declaration of conformity (nl) 291 kB, 18.08.2011 Code: mrl_az415_nl

Operating instructions and Declaration of conformity (en) 528 kB, 27.10.2010 Code: mrl_az415_en

Operating instructions and Declaration of conformity (de) 527 kB, 27.10.2010 Code: mrl_az415_de

Operating instructions and Declaration of conformity (pt) 283 kB, 24.04.2012 Code: mrl_az415_pt

Operating instructions and Declaration of conformity (it) 276 kB, 04.01.2012 Code: mrl_az415_it

Operating instructions and Declaration of conformity (da) 283 kB, 07.08.2012 Code: mrl_az415_da

Operating instructions and Declaration of conformity (pl) 292 kB, 04.03.2015 Code: mrl_az415_pl

Operating instructions and Declaration of conformity (jp) 766 kB, 18.11.2010 Code: mrl_az415_jp

Operating instructions and Declaration of conformity (fr) 271 kB, 04.05.2011 Code: mrl_az415_fr

BG-test certificate (de) 522 kB, 05.01.2011 Code: z_z41p01

CCC certification (cn) 408 kB, 24.06.2014 Code: q_175p03

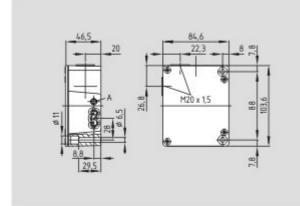
CCC certification (en) 396 kB, 24.06.2014

Code: q_175p02

Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

Images

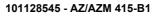


Dimensional drawing (basic component)

System components

Actuator





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

101144796 - AZ/AZM 415-B2

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



101144797 - AZ/AZM 415-B3

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



1142540 - AZ/AZM 415-B4PS

- For sliding doors
- with locking bolt and ball latch



AZ 415-STS30

Latching handle

Suitable for all types of guard

Accessories





Mounting accessories





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101160462 - SZ AZ 415-22-2

101160461 - SZ AZ 415-22-1

1135338 - TAMPERPROOF SCREWS M 5 x 12

- To mount the actuator
- Higher protection against tampering with interlock
- · Protects against unauthorised removal of actuator
- · Various lengths available

101135339 - TAMPERPROOF SCREWS M 5 x 16

- To mount the actuator
- Higher protection against tampering with interlock
- Protects against unauthorised removal of actuator
- · Various lengths available

101135340 - TAMPERPROOF SCREWS M 5 x 20

- To mount the actuator
- · Higher protection against tampering with interlock
- · Protects against unauthorised removal of actuator
- Various lengths available

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 28.07.2015 - 22:24:47h Kasbase 3.1.12.F.64I