Datasheet - AZ 415-02/20ZPK

Safety switch with separate actuator / AZ 415





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

- 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

Ordering details

Product type description

Article number

EAN code

eCl@ss

AZ 415-02/20ZPK

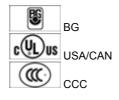
101175181

4030661357614

27-27-26-02

Approval

Approval



Classification

Standards

B_{10d} Opener (NC)

B_{10d} 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

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{co}}$$

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

Global Properties

Product name AZ 415

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

Compliance with the Directives (Y/N) € € Yes

Number of guard doors 1 piece

Materials

Weight

- Material of the housings Aluminium - Material of the contacts Silver Housing coating painted

Mechanical data

Design of electrical connection Screw connection

Cable section

2 x 0,75 mm² - Min. Cable section - Max. Cable section 2 x 1.5 mm²

Mechanical life > 1.000.000 operations

notice All indications about the cable section are including the conductor ferrules.

510.5 g

higher Latching force (Y/N) Yes

Latching force 80 N ... 400 N Positive break force 31 N min. positive break travel 3.8 mm Max. Actuating speed 0,2 m/s

Ambient conditions

Ambient temperature - Min. environmental temperature

-25 °C - Max. environmental temperature +70 °C

IP67 to IEC/EN 60529 Protection class

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 Ui 250 V Thermal test current Ithe 6 A

Utilisation category AC-15: 230 V / 4 A; DC-13: 24 V / 4 A

6 A gG D-fuse To DIN EN 60269-1 Max. fuse rating

ATEX

Explosion protection categories for gases None None

Explosion protected category for dusts

Dimensions

Dimensions of the sensor

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

84.6 mm

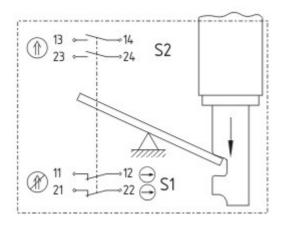
103.6 mm

46.5 mm

Included in delivery

Actuators must be ordered separately.

Diagram



Note Diagram

opositive break NC contact

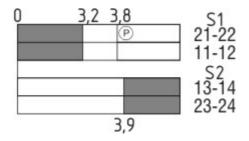
 $^{\scriptsize\textcircled{\scriptsize{1}}}_{\rm active}$

no active

O—___O Normally-open contact

o----- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

Ordering suffix

Ordering code

AZ 415-(1)ZPK-(2)

(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

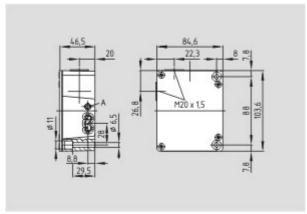
CCC certification (en) 396 kB, 24.06.2014

Code: q_175p02

Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

Images



Dimensional drawing (basic component)

System components

Actuator



101128545 - AZ/AZM 415-B1

- 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

Door-handle system



AZ 415-STS30

- · Latching handle
- Suitable for all types of guard

Accessories



101160461 - SZ AZ 415-22-1



101160462 - SZ AZ 415-22-2

Mounting accessories



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

S SCHMERSAL

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 - 22:12:02h Kasbase 3.1.12.F.64l