Datasheet - AZ 16-02ZVK

Safety switch with separate actuator / AZ 16







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

- 3 cable entries M 16 x 1.5
- Thermoplastic enclosure
- Double-insulated
- Large wiring compartment
- 52 mm x 90 mm x 30 mm
- · Multiple coding
- · Long life
- High level of contact reliability with low voltages and currents
- · Insensitive to soiling
- Slotted holes for adjustment, circular holes for location

Ordering details

Product type description

Article number

EAN code

eCl@ss

AZ 16-02ZVK

101154699

4030661173887

27-27-26-02

Approval

Approval



Classification

Standards

B_{10d} Opener (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

Global Properties

AZ 16 Product name

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

Compliance with the Directives (Y/N) $\zeta \in$ Yes

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

- Material of the contacts Silver

Housing coating None Weight 115 g

Mechanical data

Design of electrical connection Screw connection

Cable section

0,75 mm² - Min. Cable section - Max. Cable section 2.5 mm²

Mechanical life > 1.000.000 operations

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

higher Latching force (Y/N) With ejection force (Y/N) Yes Positive break force 20 N positive break travel 8 mm Actuating speed max. 2 m/s

Ambient conditions

Ambient temperature

-30 °C - Min. environmental temperature +80 °C - Max. environmental temperature

Protection class IP67 to IEC/EN 60529

Electrical data

Design of control element Opener (NC)

Switching principle Creep circuit element

Number of auxiliary contacts 0 piece Number of safety contacts 2 piece Rated impulse withstand voltage Uimp 6 kV Rated insulation voltage Ui 500 V Thermal test current Ithe 10 A

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

6 A gG D-fuse Max. fuse rating

ATEX

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

Dimensions

Dimensions of the sensor

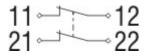
- Width of sensor 52 mm - Height of sensor 90 mm 30 mm

- Length of sensor

Included in delivery

Actuators must be ordered separately.

Diagram

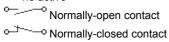


Note Diagram

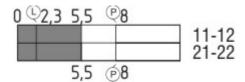
opositive break NC contact







Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

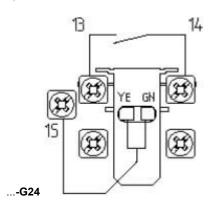
VS adjustable range of NO contact

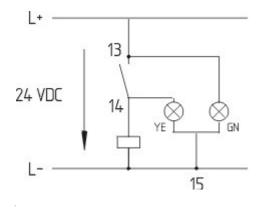
VÖ adjustable range of NC contact

N after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZ 16-02ZVK-G24





only available for version with one NO and one NC contact. Protected against incorrect polarity and voltage spikes.

cable entries M20

Ordering code

AZ 16-(1)ZV(2)K-(3)-(4)-(5)

(1)

...-M20

without 1 Normally open contact (NO) / 1 Opener (NC)

02 2 Opener (NC) **03** 3 Opener (NC)

12 Normally open contact (NO) 1 / Opener (NC) 2

(2)

without Ejection force

R Latching force 30 N

(3)

G24 with LED (only available for version with one NO and one NC contact.)

(4)

withoutCable entry M16M20Cable entry M20

STConnector M12, 4-pole, bottomSTLConnector M12, 4-pole, leftSTRConnector M12, 4-pole, right

(5)

2254 Latching force 5 N
1762 Front mounting
1637 gold-plated contacts

Documents

Operating instructions and Declaration of conformity (pt) 433 kB, 25.05.2010

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (pt) 268 kB, 21.08.2013

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (de) 265 kB, 05.10.2015

Code: mrl_az15-16_de

Operating instructions and Declaration of conformity (fr) $268\ kB,\,29.07.2013$

Code: mrl_az15-16_fr

Operating instructions and Declaration of conformity (jp) 374 kB, 10.07.2013

Code: mrl az15-16 jp

Operating instructions and Declaration of conformity (cs) 400 kB, 11.10.2011

Code: mrl_az15-16_cs

Operating instructions and Declaration of conformity (es) 282 kB, 24.11.2015

Code: mrl_az15-16_es

Operating instructions and Declaration of conformity (pl) 313 kB, 06.02.2015

Code: mrl_az15-16_pl

Operating instructions and Declaration of conformity (sv) 275 kB, 17.06.2015

Code: mrl az15-16 sv

Operating instructions and Declaration of conformity (da) 398 kB, 17.11.2011

Code: mrl_az15-16_da

Operating instructions and Declaration of conformity (en) 280 kB, 05.10.2015

Code: mrl_az15-16_en

Operating instructions and Declaration of conformity (ro) 400 kB, 18.11.2011

Code: mrl_az15-16_ro

Operating instructions and Declaration of conformity (nl) 266 kB, 02.07.2013

Code: mrl_az15-16_nl

Operating instructions and Declaration of conformity (fi) 256 kB, 02.07.2015

Code: mrl_az15-16_fi

Operating instructions and Declaration of conformity (it) 276 kB, 04.11.2015

Code: mrl_az15-16_it

Mounting and wiring instructions (de, en, fr, it, es, jp) 181 kB, 12.06.2007

Code: m_mazp01

BG-test certificate (en) 135 kB, 18.11.2014

Code: z_z15p02

BG-test certificate (de) 138 kB, 18.11.2014

Code: z_z15p01

CCC certification (cn) 270 kB, 20.01.2016

Code: q_175p03

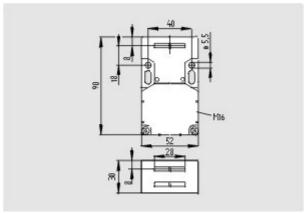
CCC certification (en) 316 kB, 20.01.2016

Code: q_175p02

EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)

System components

Actuator



101083036 - AZ 15/16-B1



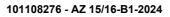
101092711 - AZ 15/16-B1-1747

- For play-free interlocking of light guards
- · Suitable for retrofitting



101093553 - AZ 15/16-B1-1747

- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane
- · Suitable for retrofitting





101108278 - AZ 15/16-B1-2024 WITH SLOT SEALING PLUG

• For protection against the ingress of course dirt



101111079 - AZ 15/16-B1-2053

• For interlocking of light to medium-weight guards





101111081 - AZ 15/16-B1-2053 WITH BALL LATCH

• For interlocking of light to medium-weight guards



101126793 - AZ 15/16-B1-2177

• For interlocking of light, unguided guards



101126794 - AZ 15/16-B1-2177 WITH CENTERING GUIDE

• For interlocking of light, unguided guards



101137408 - AZ 15/16-B1-2245

• Damps vibration on guard device



101095558 - AZ 15/16-B2

• For very smal actuating radii in line with the plane of the actuator



101096091 - AZ 15/16-B2-1747

- For very smal actuating radii in line with the plane of the actuator
- · Suitable for retrofitting
- For play-free interlocking of light guards



101096089 - AZ 15/16-B2-1747 WITH MAGNETIC LATCH

- For very smal actuating radii in line with the plane of the actuator
- · Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



101095550 - AZ 15/16-B3

• For very smal actuating radii at 90° to the plane of the actuator



101096090 - AZ 15/16-B3-1747 WITH MAGNETIC LATCH

- For very smal actuating radii at 90° to the plane of the actuator
- · Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



101096092 - AZ 15/16-B3-1747

- For very smal actuating radii at 90° to the plane of the actuator
- · Suitable for retrofitting
- · For play-free interlocking of light guards



101137434 - AZ 15/16-B6

 \bullet For very smal actuating radii in line with or at 90° to the plane of the actuator



Door-handle system



AZ 16-STS30

- · Latching handle
- Suitable for all types of guard

Accessories



101149214 - Mounting set MS AZ 15/16 R/P



101150373 - Mounting set MS AZ 15/16 P

101089116 - Slot sealing plugs AZ 15/16-1476

• For protection against the ingress of course dirt



- To cover unused actuator slots
- · Simple clip-in fitting





101115025 - Ball latch 2053-2

- · Additional ball latch for stable latching of light to medium-weight guards
- For separate mounting on the guard



101110500 - SZ 16/335

- To prevent inadvertent closing, e.g. during maintenance
- For complex plant
- · Prevents actuation of the switch
- Up to 6 padlocks can be fitted
- The lockout tag can be mounted on a chain near to the safety switch

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



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 01.02.2016 - 04:29:51h Kasbase 3.2.1.F.64l