Datasheet - AZ 16-03ZVRK

Safety switch with separate actuator / AZ 16







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

- 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
- 3 cable entries M 16 x 1.5

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZ 16-03ZVRK

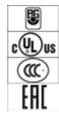
101154220

4030661171579

27-27-26-02

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

Global Properties

Permanent light AZ 16

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

Compliance with the Directives (Y/N) CE

Materials

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

Yes

- Material of the contacts Silver
Housing coating None

Weight Non 115

Mechanical data

Design of electrical connection Screw connection

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.

higher Latching force (Y/N)

Latching force

30

With ejection force (Y/N)

Positive break force

30

positive break travel

Actuating speed

Yes

30

No

8 mm

2 m/s max.

Ambient conditions

Ambient temperature

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

Protection class IP67 to IEC/EN 60529

Electrical data

Design of control element Opener (NC)

Switching principle Snap action with self-cleaning contact

Number of auxiliary contacts0Number of safety contacts3Rated impulse withstand voltage Uimp4 kVRated insulation voltage Ui500 VThermal test current Ithe10 A

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

Max. fuse rating 6 A gG D-fuse

ATEX

Explosion protection categories for gases

None
Explosion protected category for dusts

None

Dimensions

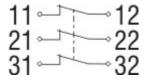
Dimensions of the sensor

- Width of sensor- Height of sensor90 mm

Included in delivery

Actuators must be ordered separately.

Diagram

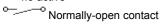


Note Diagram

opositive break NC contact







o----- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

 $^{\textcircled{L}}_{\text{Break point}}$

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 16-03ZVRK-2254

...-2254

Latching force 5 N

...-M20

cable entries M20

Ordering code

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

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

ST Connector M12, 4-pole, bottom
STL Connector M12, 4-pole, left
STR Connector M12, 4-pole, right

(5)

2254Latching force 5 N1762Front mounting1637gold-plated contacts

Documents

Operating instructions and Declaration of conformity (br) 290 kB, 18.12.2018

Code: ACE_mrl_az15-16_br

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

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (pt) 287 kB, 08.07.2016

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (de) 267 kB, 04.03.2016

Code: mrl_az15-16_de

Operating instructions and Declaration of conformity (fr) 284 kB, 27.04.2016

Code: mrl_az15-16_fr

Operating instructions and Declaration of conformity (jp) 564 kB, 23.08.2016

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) 281 kB, 09.03.2016

Code: mrl_az15-16_es

Operating instructions and Declaration of conformity (pl) 313 kB, 15.04.2016

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) 283 kB, 04.03.2016

Code: mrl_az15-16_en

Operating instructions and Declaration of conformity (nl) 314 kB, 02.07.2018

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) 275 kB, 15.04.2016

Code: mrl_az15-16_it

Operating instructions (en) 141 kB, 16.05.2018

Code: mrl_ms_az15-16_en

Operating instructions (de) 140 kB, 16.05.2018

Code: mrl_ms_az15-16_de

Operating instructions (es) 137 kB, 05.06.2018

Code: mrl_ms_az15-16_es

Operating instructions (pl) 178 kB, 13.08.2018

Code: mrl_ms_az15-16_pl

Operating instructions (fr) 137 kB, 05.06.2018

Code: mrl_ms_az15-16_fr

Operating instructions (nl) 141 kB, 23.07.2018

Code: mrl_ms_az15-16_nl

Operating instructions (pt) 142 kB, 08.08.2018

Code: mrl_ms_az15-16_pt

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) 3 MB, 18.10.2017

Code: q_175p03

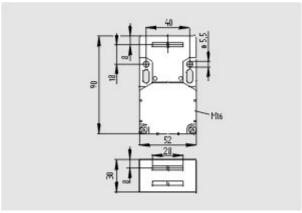
CCC certification (en) 3 MB, 29.08.2017

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

Th

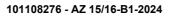
101092711 - AZ 15/16-B1-1747

- 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

