Datasheet - AZ 16ZVRK

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
- · LED version available

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZ 16ZVRK

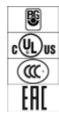
101152094

4030661164700

27-27-26-02

Approval

Approval



Classification

Standards

B10d Normally-closed contact (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

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

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

Global Properties

Permanent light AZ 16

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

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

Materials

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

- Material of the contacts Silver
Housing coating None
Weight 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)YesLatching force30With ejection force (Y/N)NoPositive break force10

positive break travel 8 mm

Actuating speed 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 Normally open contact (NO), Opener (NC)

Switching principle Snap action with self-cleaning contact

Number of auxiliary contacts1Number of safety contacts1Rated 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 sensor
- Length of sensor

52 mm

90 mm

30 mm

Included in delivery

Actuators must be ordered separately.

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

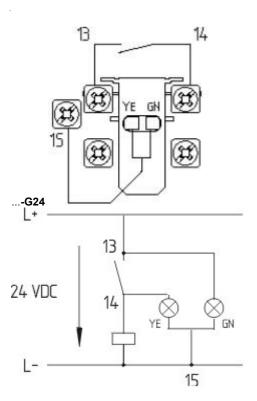
N after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZ 16ZVRK-2254

...-2254

Latching force 5 N



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

Ordering code

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

(1)

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

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

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

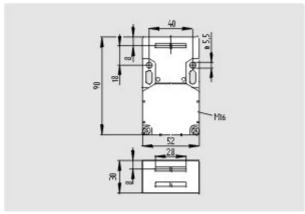
CCC certification (en) 3 MB, 29.08.2017

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



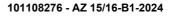
101092711 - AZ 15/16-B1-1747

- 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

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 13.02.2019 - 14:36:12h Kasbase 3.3.0.F.64l