Datasheet - AZ 16-12ZI-B6L

Safety switch with separate actuator / AZ 16ZI / AZ 16ZI-B6







- Thermoplastic enclosure
- · Individual coding
- Coding level "High" according to ISO 14119
- 52 mm x 90 mm x 30 mm
- · Long life
- Double-insulated
- Large wiring compartment
- 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

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

Ordering details

Product type description AZ 16-12ZI-B6L
Article number 103005854

EAN Code

eCl@ss 27-27-26-02

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC) B10d Normally open contact (NO)

- notice

Mission time

notice

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

2.000.000

1.000.000

at 10% le and ohmic load

20 Years

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

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

Permanent light AZ 16ZI

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

Materials

- Material of the actuator Stainless steel

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

None

None

- Material of the contacts Silver

Housing coating
Housing coating
Weight

Mechanical data

Design of electrical connection Screw connection

Cable section

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

Design of actuators angled, flexible

Mechanical life > 1.000.000 operations

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

35

With ejection force (Y/N)

Positive break force

positive break travel

Actuating speed

Yes

20

8 mm

max. 2 m/s

Minimum actuating radius

Ambient conditions

Ambient temperature
- Min. environmental temperature -30

- Max. environmental temperature +80

Protection class IP67 to IEC/EN 60529

Ambient temperature

Electrical data

Design of control element Normally open contact (NO), Opener (NC)

Design of control element Normally open contact (NO), Opener (NC)

Switching principle Creep circuit element
Switching principle Creep circuit element

Number of auxiliary contacts1Number of safety contacts2Rated impulse withstand voltage6Rated insulation voltage500Thermal test current10 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

- Length of sensor

- Width of sensor	52
- Height of sensor	90

notice

Minimum actuating radius on hinged guards 35 mm

The axis of the hinge should be 5 mm above the top edge of the safety switch and in the same plane

30

The actuator is not available separately.

Included in delivery

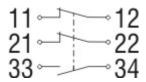
Individually coded actuator B6 left-hand model

Individually coded actuator

tamperproof screws

Slot sealing plugs

Diagram



Note Diagram

opositive break NC contact

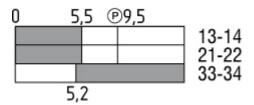




o-___o Normally-open contact

o______ Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

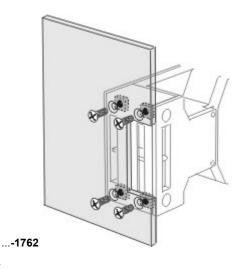
VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZ 16-12ZI-B6L-1762



Versions with M5 nuts

For front mounting of safety switch, e.g. on sheet-steel covers

Cannot be retrofitted

...-1637 0,3 µm gold-plated contacts

...-M20 cable entries M20

Ordering code

AZ 16-(1)ZI-(2)-(3)

(1)

3.0 3 Opener (NC)

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

(2) Actuator:

B1 straight Design

B1-1747 straight Design with magnetic latch
B1-2024 straight Design with slot sealing plug

B1-2053 straight Design with ball latch

B1-2177 straight Design with centering guide

(3)

M16 Cable entry M16 M20 Cable entry M20

Documents

Operating instructions and Declaration of conformity (jp) 732 kB, 20.01.2017

Code: mrl_az16zi_jp

Operating instructions and Declaration of conformity (nl) 492 kB, 02.08.2018

Code: mrl_az16zi_nl

Operating instructions and Declaration of conformity (it) 465 kB, 21.11.2016

Code: mrl_az16zi_it

Operating instructions and Declaration of conformity (pt) 452 kB, 04.12.2015

Code: mrl_az16zi_pt

Operating instructions and Declaration of conformity (da) 361 kB, 25.01.2012

Code: mrl_az16zi_da

Operating instructions and Declaration of conformity (en) 517 kB, 28.09.2016

Code: mrl_az16zi_en

Operating instructions and Declaration of conformity (de) 515 kB, 28.09.2016

Code: mrl_az16zi_de

Operating instructions and Declaration of conformity (ro) $362\ kB,\ 25.01.2012$

Code: mrl_az16zi_ro

Operating instructions and Declaration of conformity (fr) 468 kB, 18.11.2016

Code: mrl_az16zi_fr

Operating instructions and Declaration of conformity (es) 471 kB, 21.11.2016

Code: mrl az16zi es

Operating instructions and Declaration of conformity (cn) 609 kB, 11.05.2017

Code: mrl_az16zi_cn

Operating instructions and Declaration of conformity (sv) 343 kB, 17.06.2015

Code: mrl_az16zi_sv

Operating instructions and Declaration of conformity (pl) 503 kB, 01.12.2016

Code: mrl_az16zi_pl

BG-test certificate (en) 536 kB, 05.01.2011

Code: z__16p02

BG-test certificate (de) 203 kB, 02.03.2016

Code: z__16p01

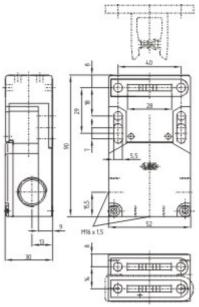
CCC certification (cn) 3 MB, 18.10.2017

Code: q_175p03

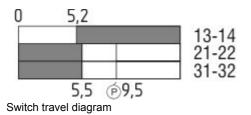
CCC certification (en) 3 MB, 29.08.2017

Code: q_175p02

Images



Dimensional drawing (basic component)



System components

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