Datasheet - AZ 16-03ZI-B1-2024 WITH SLOT LIP-SEAL



Safety switch with separate actuator / AZ 16ZI / AZ 16ZI-B1 - 2024 WITH SLOT LIP-SEAL





SCHMERSAL

SSCHMERSAL

SSCHMER

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

- 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
- For protection against the ingress of course dirt
- 3 cable entries M 16 x 1.5

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZ 16-03ZI-B1-2024 MIT SCHLITZABDECKUNG/-VERSCHLUESSEN

101150057

4030661154510

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

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

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

Permanent light AZ 16ZI

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

Materials

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

- Material of the contacts Silver

Housing coating None Weight 174

Mechanical data

Design of electrical connection Screw connection

Cable section

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

Design of actuators straight, rigid

Mechanical life > 1.000.000 operations

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

With ejection force (Y/N)

Positive break force

30

positive break travel

8 mm

Actuating speed

max. 2 m/s

Minimum actuating radius

250 mm

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 Creep circuit element

Number of auxiliary contacts0Number of safety contacts3Rated impulse withstand voltage Uimp6 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 52 mm

- Height of sensor 90

notice

Minimum actuating radius on hinged guards 250 mm

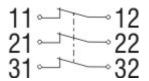
The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane

The actuator is not available separately.

Included in delivery

Individually coded actuator tamperproof screws Slot sealing plugs

Diagram



Note Diagram

opositive break NC contact

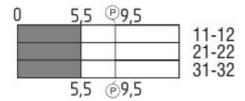


no active

o-___o Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

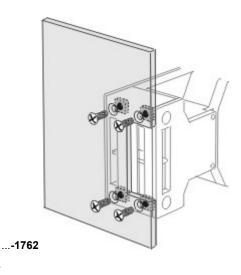
Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

Ordering suffix



Versions with M5 nuts

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

Cannot be retrofitted

0,3 µm gold-plated contacts

cable entries M20

Ordering code

...-1637

...-M20

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

(1)

3.0 3 Opener (NC)

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

Actuator: (2)

В1 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

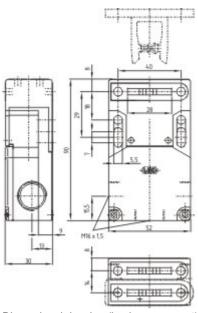
CCC certification (cn) 3 MB, 18.10.2017

Code: q_175p03

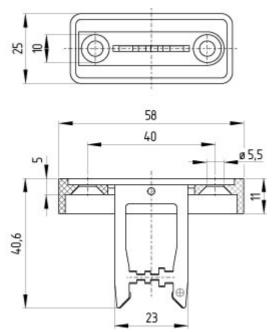
CCC certification (en) 3 MB, 29.08.2017

Code: q_175p02

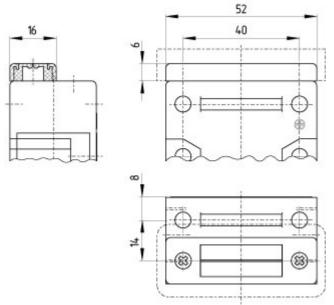
Images



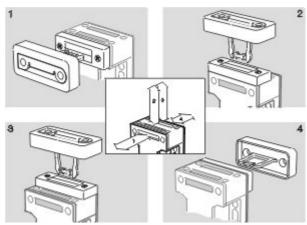
Dimensional drawing (basic component)



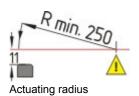
Dimensional drawing (miscellaneous)

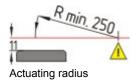


Dimensional drawing (miscellaneous)



Operating principle





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

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 - 14:36:22h Kasbase 3.3.0.F.64l