Datasheet - AZ 16-03ZI-B1-1747 WITH MAGNETIC LATCH



Safety switch with separate actuator / AZ 16ZI / AZ 16ZI-B1 - 1747 WITH MAGNETIC LATCH



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

- Thermoplastic enclosure
- Individual coding
- 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
- Not sensitive to dirty conditions by virtue of patented roller system
- Slotted holes for adjustment, circular holes for location
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane
- 3 cable entries M 16 x 1.5

Ordering details

Product type description AZ 16-03ZI-B1-1747 MIT HAFTMAGNET

Article number 101145140

EAN code

eCl@ss 27-27-26-02

Approval

Approval



Classification

Standards EN ISO 13849-1

 B10d Opener (NC)
 2.000.000

 Mission time
 20 Years

notice $MTTF_d = \frac{B_{100}}{0.1 \times r}$

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

Global Properties

Product name 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

Mechanical data

Design of electrical connection Screw connection

Cable section

- Min. Cable section 0,75 mm² 2.5 mm² - Max. Cable section Design of actuators straight, rigid

Mechanical life > 1.000.000 operations

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

With ejection force (Y/N) Yes 30 N Latching force Positive break force 30 N positive break travel 8 mm Actuating speed max. 2 m/s Minimum actuating radius 250 mm

Ambient conditions

Ambient temperature

- Min. environmental temperature -30 °C - 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 contacts 0 piece Number of safety contacts 3 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 90 mm

- Height of sensor

notice

Minimum actuating radius on hinged guards 250 mm

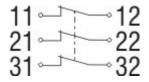
The axis of the hinge should be 5 mm above the top edge of the safety switch and in the same plane

The actuator is not available separately.

Included in delivery

Individually coded actuator tamperproof screws Slot sealing plugs

Diagram



Note Diagram

opositive break NC contact

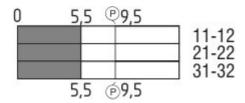


no active

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

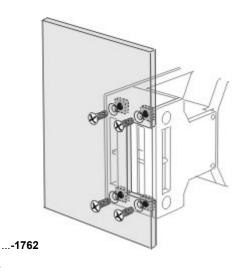
Positive opening sequence/- angle

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)

(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) 593 kB, 01.09.2014

Code: mrl_az16zi_jp

Operating instructions and Declaration of conformity (nl) 345 kB, 30.09.2014

Code: mrl_az16zi_nl

Operating instructions and Declaration of conformity (it) 344 kB, 01.09.2014

Code: mrl_az16zi_it

Operating instructions and Declaration of conformity (pt) 350 kB, 17.06.2014

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) 528 kB, 27.01.2011

Code: mrl_az16zi_en

Operating instructions and Declaration of conformity (de) 577 kB, 24.02.2011

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) 347 kB, 30.09.2014

Code: mrl_az16zi_fr

Operating instructions and Declaration of conformity (es) 349 kB, 11.08.2014

Code: mrl_az16zi_es

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

Code: mrl_az16zi_sv

Operating instructions and Declaration of conformity (pl) 414 kB, 11.08.2014

Code: mrl_az16zi_pl

BG-test certificate (en) 536 kB, 05.01.2011

Code: z__16p02

BG-test certificate (de) 544 kB, 05.01.2011

Code: z__16p01

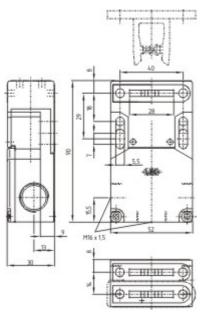
CCC certification (cn) 408 kB, 24.06.2014

Code: q_175p03

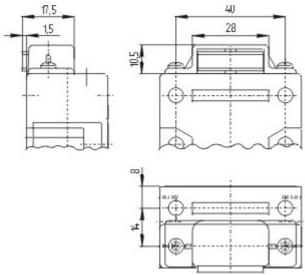
CCC certification (en) 396 kB, 24.06.2014

Code: q_175p02

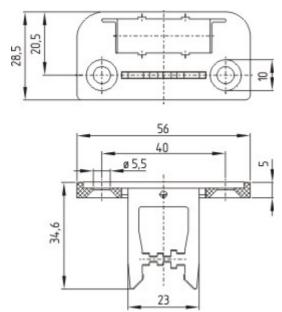
Images



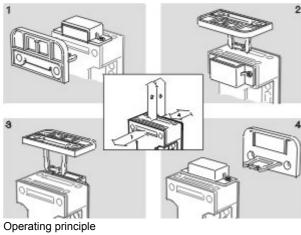
Dimensional drawing (basic component)

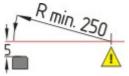


Dimensional drawing (miscellaneous)

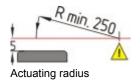


Dimensional drawing (miscellaneous)





Actuating radius



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 22.07.2015 - 23:59:42h Kasbase 3.1.12.F.64l