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Datasheet - AZ 16-12ZI-B1-1747 WITH MAGNETIC LATCH

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



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 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

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

Ordering details

Product type description
Article number
EAN Code
eCl@ss

AZ 16-12ZI-B1-1747 MIT HAFTMAGNET 101145135 4030661136219 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 = $\frac{B_{100}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oxic}}$

Global Properties

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	176

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)	Yes
Latching force	30 N
Positive break force	20
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	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	1
Number of safety contacts	2
Rated impulse withstand voltage Uimp	6 kV
Rated insulation voltage Ui	500 V
Thermal test current Ithe	10 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	
- Length of sensor	30 mm	

notice

Minimum actuating radius on hinged guards 250 mm

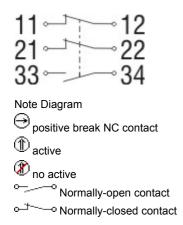
The axis of the hinge should be 5 mm above the top edge of the safety switch and in the same plane

The actuator is not available separately.

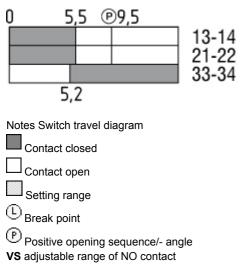
Included in delivery

Individually coded actuator tamperproof screws Slot sealing plugs

Diagram



Switch travel diagram

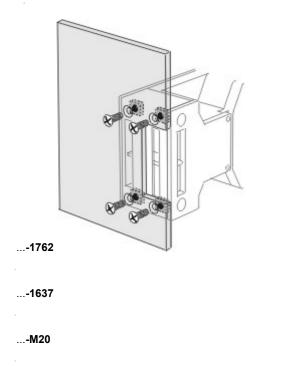


VÖ adjustable range of NC contact

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-B1-1747 WITH MAGNETIC LATCH**-1762**



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

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

(1)	
3.0	3 Opener (NC)
12	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

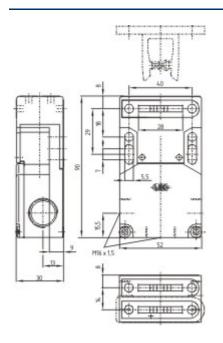
BG-test certificate (en) 536 kB, 05.01.2011 Code: z_16p02

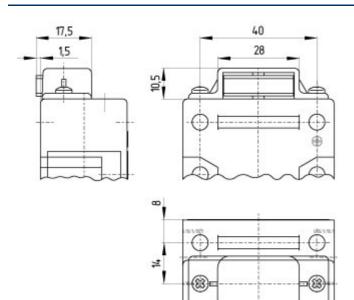
BG-test certificate (de) 203 kB, 02.03.2016 Code: z_16p01

CCC certification (cn) 3 MB, 18.10.2017 Code: q_175p03

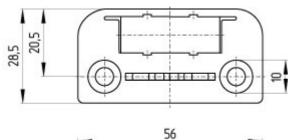
CCC certification (en) 3 MB, 29.08.2017 Code: q_175p02

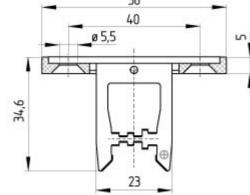
Images



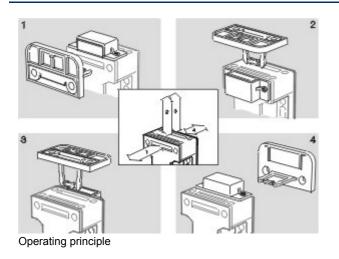


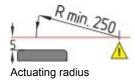


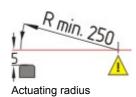




Dimensional drawing (miscellaneous)







System components

Mounting accessories 1135338 - TAMPERPROOF SCREWS M 5 x 12 • To mount the actuator • To mount the actuator • Independent of actuator • Protects against tampering with interlock • Protects against unauthorised removal of actuator • Various lengths available • To mount the actuator • Various lengths available • To mount the 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 - 14:36:19h Kasbase 3.3.0.F.64I