23.07.2015

00:43:45h

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

X Preferred typ



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

Ordering details

Product type description
Article number
EAN code
eCl@ss

AZ 16-03ZI-B1-2024 MIT SCHLITZABDECKUNG/-VERSCHLUESSEN 101150057 4030661154510 27-27-26-02

Approval

Approval



EN ISO 13849-1 2.000.000 20 Years

 $MTTF_d = \frac{D_{100}}{0.1 \times n_{op}}$

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

Classification

Standards
B10d Opener (NC)
Mission time
notice

- 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

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- · Slotted holes for adjustment, circular holes for location
- For protection against the ingress of course dirt
- 3 cable entries M 16 x 1.5

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
Weight	174 g

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm²
- Max. Cable section	2.5 mm ²
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
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
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

- Width of sensor

- Height of sensor

52 mm 90 mm

notice

Minimum actuating radius on hinged guards 250 mm

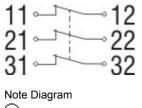
The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane

The actuator is not available separately.

Included in delivery

Individually coded actuator tamperproof screws Slot sealing plugs

Diagram

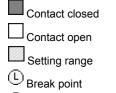


 \ominus positive break NC contact $\textcircled{1}_{\text{active}}$ no active °----- Normally-open contact o-t---- Normally-closed contact

Switch travel diagram



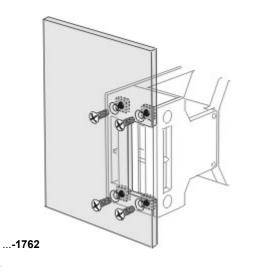
Notes Switch travel diagram



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

...-1637

...-M20

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) 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

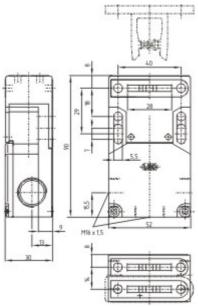
BG-test certificate (en) 536 kB, 05.01.2011 Code: z_16p02

BG-test certificate (de) 544 kB, 05.01.2011 Code: z_16p01

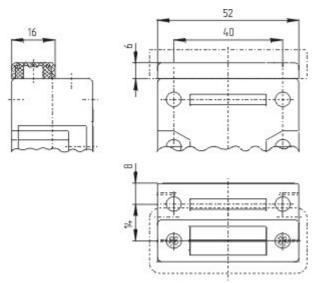
CCC certification (cn) 408 kB, 24.06.2014 Code: q_175p03

CCC certification (en) 396 kB, 24.06.2014 Code: q_175p02

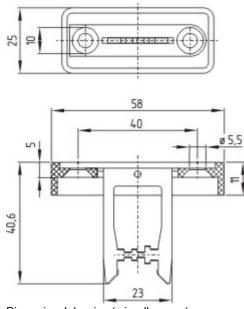
Images



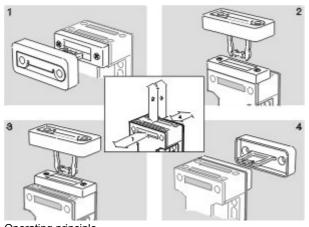
Dimensional drawing (basic component)



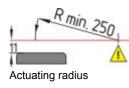
Dimensional drawing (miscellaneous)

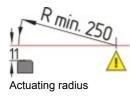


Dimensional drawing (miscellaneous)

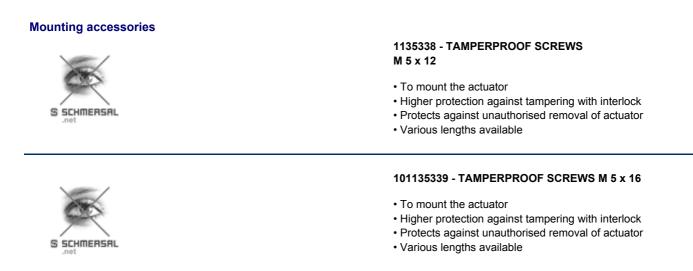


Operating principle





System components





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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 23.07.2015 - 00:43:46h Kasbase 3.1.12.F.64l