Datasheet - AZ 17-02ZK

Safety switch with separate actuator / AZ 17



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

- thermoplastic enclosure
- Small body
- 8 actuating planes
- 30 mm x 60 mm x 30 mm
- Multiple coding
- Double-insulated ⧈
- Long life
- High level of contact reliability with low voltages and currents
- Not sensitive to dirty conditions by virtue of patented roller system
- cable gland M16

Ordering details

Product type description	AZ 17-02ZK
Article number	1121961
EAN code	4030661049694

Approval

Approval	BG USA/CAN CCC

Classification

Standards	EN ISO 13849-1
B_{10d} Opener (NC)	2.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600\ s/h}{t_{zyklus}}$

Global Properties

Product name	AZ 17
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	85 g

Mechanical data

Design of electrical connection	IDC method of termination
Cable section	
- Min. Cable section	1 x 0,75 mm²
- Max. Cable section	1 x 1 mm²
Mechanical life	> 1.000.000 operations
higher Latching force (Y/N)	No
Latching force	5 N
Positive break force	17 N
positive break travel	11 mm
Max. Actuating speed	0,2 m/s

Ambient conditions

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	2 piece
Rated impulse withstand voltage U_{imp}	4 kV
Rated insulation voltage U_i	250 V
Thermal test current I_{the}	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	30 mm
- Height of sensor	85 mm
- Length of sensor	30 mm

notice

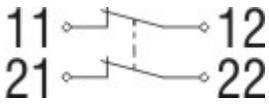
Individual coding available on request

This type termination (IDC) method enables simple connetion of flexible conductors without the need for the use of conductor ferrules

Included in delivery

Actuators must be ordered separately.
Slot sealing plugs

Diagram



Note Diagram
positive break NC contact
active
no active
Normally-open contact
Normally-closed contact

Switch travel diagram



Notes Switch travel diagram
Contact closed
Contact open
Setting range
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 17-02ZK**-1637**

...**-1637**	0,3 µm gold-plated contacts

Ordering code

AZ 17-(1)Z(2)K-(3)-(4)-(5)

(1)

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

(2)

without	Latching force 5 N
R	Latching force 30 N

(3)

without	cable gland M16
2243	Front cable entry
2243-1	Rear cable entry
ST	Connector M12, 4-pole

(4)

1637	gold-plated contacts

(5)

5M	5 m Cable length
6M	6 m Cable length

Documents

Operating instructions and Declaration of conformity (br) 650 kB, 07.07.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/ace/br/mrl_az17-ace_br.pdf

Operating instructions and Declaration of conformity (fr) 647 kB, 02.06.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/fr/mrl_az17_fr.pdf

Operating instructions and Declaration of conformity (es) 641 kB, 02.06.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/es/mrl_az17_es.pdf

Operating instructions and Declaration of conformity (en) 721 kB, 02.06.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/en/mrl_az17_en.pdf

Operating instructions and Declaration of conformity (nl) 638 kB, 02.06.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/nl/mrl_az17_nl.pdf

Operating instructions and Declaration of conformity (de) 597 kB, 18.02.2011
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/de/mrl_az17_de.pdf

Operating instructions and Declaration of conformity (it) 627 kB, 02.06.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/it/mrl_az17_it.pdf

Operating instructions and Declaration of conformity (jp) 1 MB, 17.11.2010
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/bedien/jp/mrl_az17_jp.pdf

BG-test certificate (de) 552 kB, 28.02.2007
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/baumuste/z_z17p01.pdf

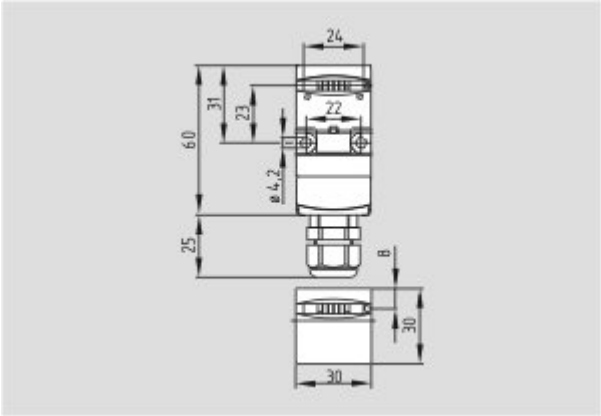
BG-test certificate (en) 551 kB, 28.02.2007
http://127.0.0.1/Bilddata/AZ/Pdf/Az17/baumuste/z_z17p02.pdf

CCC certification (en) 746 kB, 12.12.2006
http://127.0.0.1/Bilddata/AZ/Pdf/Az15_16/zertifikat/q_175p02.pdf

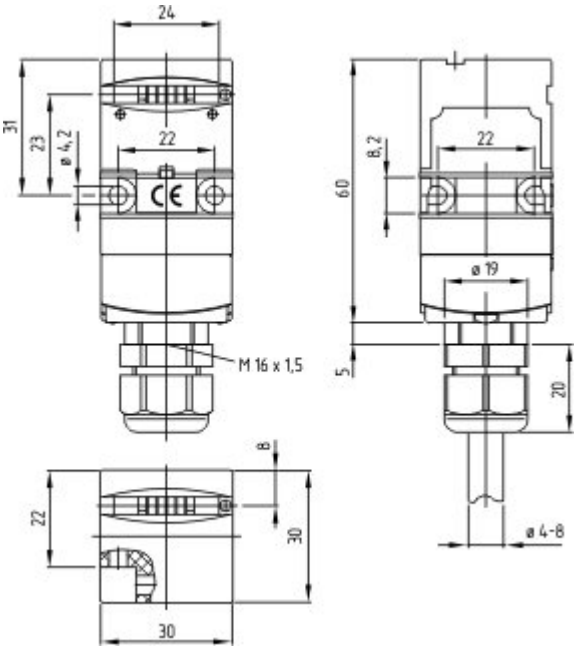
CCC certification (cn) 730 kB, 12.12.2006
http://127.0.0.1/Bilddata/AZ/Pdf/Az15_16/zertifikat/q_175p03.pdf

Gost certification (ru) 1 MB, 21.06.2007
http://127.0.0.1/Bilddata/AZ/Pdf/Az15_16/zertifikat/q_az1p01.pdf

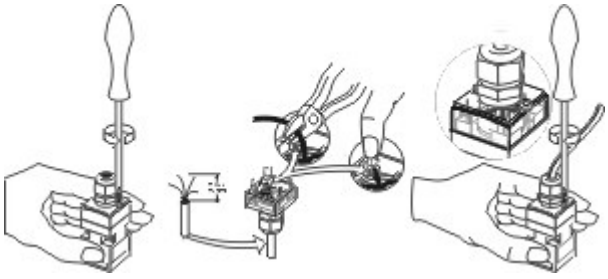
Images



Dimensional drawing (basic component)



Dimensional drawing (basic component)


Configuration graphic

System components

Actuator



1122893 - AZ 17/170-B1

• Particularly suitable for sliding doors



1137406 - AZ 17/170-B1-2245

• Damps vibration on guard device



1122895 - AZ 17/170-B5

• Particularly suitable for hinged guards (front mounting)



1126060 - AZ 17-B6

• For very smal actuating radii
• The direction of actuation can be selected by applicable insertion of the insert

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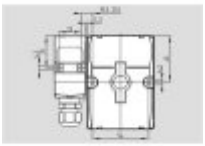
1139788 - AZ 17/170-B11

• Particularly suitable for sliding doors



1139789 - AZ 17/170-B15

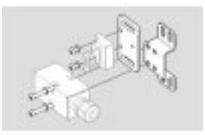
• Particularly suitable for hinged guards (front mounting)



AZ 17-B25

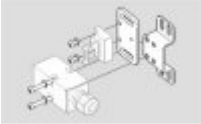
• Ergonomic operation
• No supplementary door-handle required
• Door hinge on left-hand side (View point towards the hazardous area)
• No protruding actuator
• Actuator without handle
• Simple mounting
• Several door-handles available
• Possibility to mount the own handles using a default square screw (8 mm)

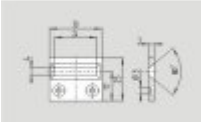
Accessories



1150363 - Mounting set MS AZ 17 P

1149212 - Mounting set MS AZ 17 R/P





1208493 - AZM 170-B CENTERING GUIDE

• for AZ 17 and AZM 170

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

1135339 - 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

1135340 - 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

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Global Electronic Components Distributor

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SCHMERSAL:

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BNS 33-02Z-2187-3M ADDITIONAL HINGE Z 400 AZM 170-11ZRKA 230 VAC 101140800 151181584
AZ15ZVRK-M20 AZM 161-B1E AZM415-11/11 ZPKE 110VAC-M20 101191859 101136315 101181883
101191960 101192422 AZ 15/16-B6 BNS 16-12ZR RST-U-2 101140798 101140805 101187910
101190024 151181519 AZM 161-B1-2053