

Datasheet - AZ 15 ZVK

Safety switch with separate actuator / AZ 15



Image

Preferred typ



- thermoplastic enclosure
- Double-insulated
- Long life
- 52 mm x 75 mm x 30 mm
- Multiple coding
- Large wiring compartment
- High level of contact reliability with low voltages and currents
- Slotted holes for adjustment, circular holes for location
- Not sensitive to dirty conditions by virtue of patented roller system
- 3 cable entries M 16 x 1.5

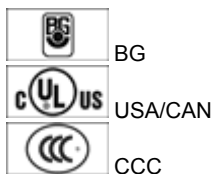
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	AZ 15 ZVK
Article number	1152787
EAN code	4030661166308

Approval


Approval



Classification

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

Global Properties

Product name	AZ 15
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	100 g

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm ²
- Max. Cable section	2.5 mm ²
Mechanical life	> 1.000.000 operations
higher Latching force (Y/N)	No
With ejection force (Y/N)	Yes
Positive break force	10 N
positive break travel	8 mm
Actuating speed	max. 2 m/s
notice	All indications about the cable section are including the conductor ferrules.

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	1 piece
Rated impulse withstand voltage U _{imp}	6 kV
Rated insulation voltage U _i	500 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	52 mm

- Height of sensor	75 mm
- Length of sensor	30 mm

Included in delivery

Actuators must be ordered separately.

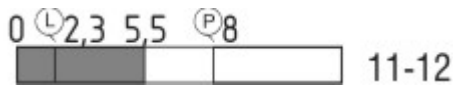
Diagram



Note Diagram

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

Switch travel diagram



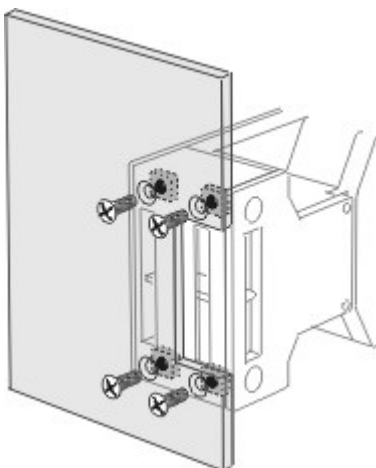
Notes Switch travel diagram

- 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 15 ZVK-**1637**

....- 1637	0,3 µm gold-plated contacts
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....-**1762**

Versions with M5 nuts
For front mounting of safety switch, e.g. on sheet-steel covers
Cannot be retrofitted

Ordering code

AZ 15 ZV(1)K-(2)-(3)

(1)

without Ejection force

R Latching force 30 N

(2)

without Cable entry M16

ST Connector M12, 4-pole

(3)

2254 Latching force 5 N

1762 Front mounting

1637 gold-plated contacts

Documents

Operating instructions and Declaration of conformity (ro) 400 kB, 18.11.2011

Code: mrl_az15-16_ro

Operating instructions and Declaration of conformity (br) 436 kB, 26.05.2010

Code: mrl_az15-16_br

Operating instructions and Declaration of conformity (pt) 433 kB, 25.05.2010

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (jp) 479 kB, 15.03.2011

Code: mrl_az15-16_jp

Operating instructions and Declaration of conformity (it) 330 kB, 27.11.2009

Code: mrl_az15-16_it

Operating instructions and Declaration of conformity (nl) 431 kB, 14.09.2010

Code: mrl_az15-16_nl

Operating instructions and Declaration of conformity (en) 516 kB, 26.05.2010

Code: mrl_az15-16_en

Operating instructions and Declaration of conformity (fr) 442 kB, 01.07.2010

Code: mrl_az15-16_fr

Operating instructions and Declaration of conformity (es) 405 kB, 25.03.2011

Code: mrl_az15-16_es

Operating instructions and Declaration of conformity (sv) 462 kB, 25.10.2011

Code: mrl_az15-16_sv

Operating instructions and Declaration of conformity (cs) 400 kB, 11.10.2011

Code: mrl_az15-16_cs

Operating instructions and Declaration of conformity (da) 398 kB, 17.11.2011

Code: mrl_az15-16_da

Operating instructions and Declaration of conformity (pt) 406 kB, 21.12.2011

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (pl) 400 kB, 05.09.2011

Code: mrl_az15-16_pl

Operating instructions and Declaration of conformity (de) 695 kB, 24.02.2011

Code: mrl_az15-16_de

BG-test certificate (en) 197 kB, 01.06.2010

Code: z_z15p02

BG-test certificate (de) 198 kB, 01.06.2010

Code: z_z15p01

CCC certification (en) 1 MB, 19.05.2011

Code: q_175p02

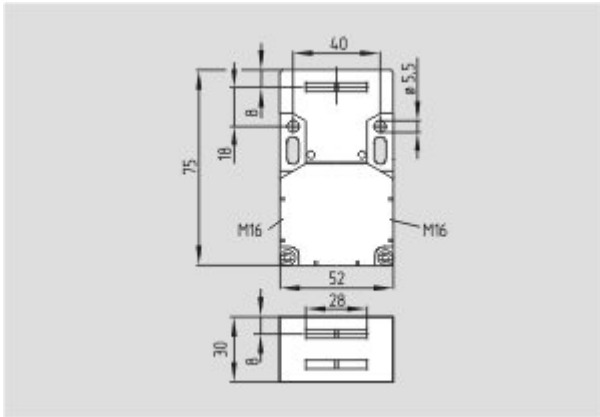
CCC certification (cn) 1 MB, 19.05.2011

Code: q_175p03

Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

Images



Dimensional drawing (basic component)

System components

Actuator

1083036 - AZ 15/16-B1



1092711 - AZ 15/16-B1-1747

- For play-free interlocking of light guards
- Suitable for retrofitting



1093553 - AZ 15/16-B1-1747

- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane
- Suitable for retrofitting



1108276 - AZ 15/16-B1-2024



1108278 - AZ 15/16-B1-2024 WITH SLOT SEALING PLUG

- For protection against the ingress of coarse dirt



1111079 - AZ 15/16-B1-2053

- For interlocking of light to medium-weight guards



1111081 - AZ 15/16-B1-2053 WITH BALL LATCH

- For interlocking of light to medium-weight guards



1126793 - AZ 15/16-B1-2177

- For interlocking of light, unguided guards



1126794 - AZ 15/16-B1-2177 WITH CENTERING GUIDE

- For interlocking of light, unguided guards



1137408 - AZ 15/16-B1-2245

Damps vibration on guard device



1095558 - AZ 15/16-B2

- For very small actuating radii in line with the plane of the actuator



1096091 - AZ 15/16-B2-1747

- For very small actuating radii in line with the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards



1096089 - AZ 15/16-B2-1747 WITH MAGNETIC LATCH

- For very small actuating radii in line with the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



1095550 - AZ 15/16-B3

- For very small actuating radii at 90° to the plane of the actuator



1096090 - AZ 15/16-B3-1747 WITH MAGNETIC LATCH

- For very small actuating radii at 90° to the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



1096092 - AZ 15/16-B3-1747

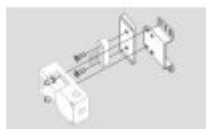
- For very small actuating radii at 90° to the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards

1137434 - AZ 15/16-B6

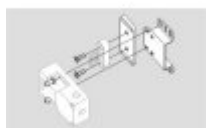
- For very small actuating radii in line with or at 90° to the plane of the actuator



Accessories



1149214 - Mounting set MS AZ 15/16 R/P



1150373 - Mounting set MS AZ 15/16 P



1089116 - Slot sealing plugs AZ 15/16-1476

- For protection against the ingress of coarse dirt
- To cover unused actuator slots
- Simple clip-in fitting



1115025 - Ball latch 2053-2

- Additional ball latch for stable latching of light to medium-weight guards
- For separate mounting on the guard



1110500 - SZ 16/335

- To prevent inadvertent closing, e.g. during maintenance
- For complex plant
- Prevents actuation of the switch
- Up to 6 padlocks can be fitted
- The lockout tag can be mounted on a chain near to the safety switch

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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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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