

Datasheet - AZ 15 ZVK-ST

Safety switch with separate actuator / AZ 15



- Thermoplastic enclosure
- Double-insulated \square
- 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
- Insensitive to soiling
- 2 cable entries M 16 x 1.5
- Connector M12, 4-pole

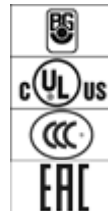
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	AZ 15 ZVK-ST
Article number	101148744
EAN Code	4030661148151
eCl@ss	27-27-26-02

Approval


Approval



Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	2.000.000
Mission time notice	20 Years
	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$
	$n_{op} = \frac{d_{op} \times h_{cp} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	AZ 15
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
suitable for elevators (Y/N)	Yes
Materials	
- Material of the housings	Plastic,, glass-fibre reinforced thermoplastic self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	90

Mechanical data

Design of electrical connection	Connector M12
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

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
Number of safety contacts	1
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

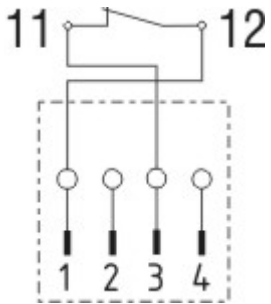
Dimensions

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.

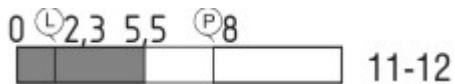
Diagram








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-ST-1762



...-1762

Cannot be retrofitted

...-1637

0,3 µm gold-plated contacts

Documents

Operating instructions and Declaration of conformity (br) 290 kB, 18.12.2018

Code: ACE_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 (pt) 287 kB, 08.07.2016

Code: mrl_az15-16_pt

Operating instructions and Declaration of conformity (de) 267 kB, 04.03.2016

Code: mrl_az15-16_de

Operating instructions and Declaration of conformity (fr) 284 kB, 27.04.2016

Code: mrl_az15-16_fr

Operating instructions and Declaration of conformity (jp) 564 kB, 23.08.2016

Code: mrl_az15-16_jp

Operating instructions and Declaration of conformity (es) 281 kB, 09.03.2016

Code: mrl_az15-16_es

Operating instructions and Declaration of conformity (en) 283 kB, 04.03.2016

Code: mrl_az15-16_en

Operating instructions and Declaration of conformity (nl) 314 kB, 02.07.2018

Code: mrl_az15-16_nl

Operating instructions and Declaration of conformity (it) 275 kB, 15.04.2016

Code: mrl_az15-16_it

BG-test certificate (en) 135 kB, 18.11.2014

Code: z_z15p02

BG-test certificate (de) 138 kB, 18.11.2014

Code: z_z15p01

BG-test certificate (de) 1 MB, 28.08.2018

Code: z_az1p03

BG-test certificate (en) 1 MB, 28.08.2018

Code: z_az1p04

CCC certification (cn) 3 MB, 18.10.2017

Code: q_175p03

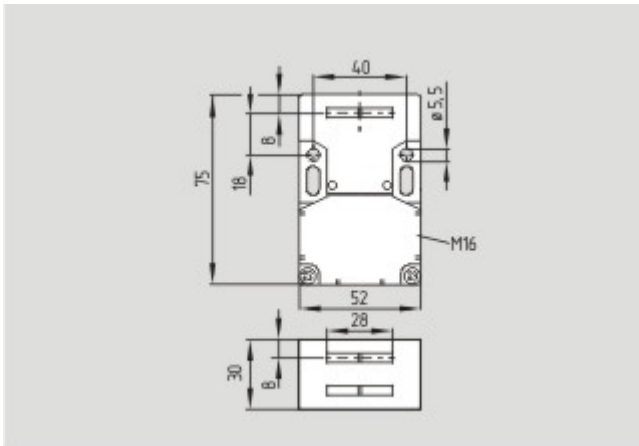
CCC certification (en) 3 MB, 29.08.2017

Code: q_175p02

EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)

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

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