13.02.2019

14:35:52h

SCHMERSAL

Datasheet - AZ 16-02ZVRK

Safety switch with separate actuator / AZ 16

X Preferred typ



- Thermoplastic enclosure
- Double-insulated
- Large wiring compartment
- 52 mm x 90 mm x 30 mm
- Multiple coding
- Long life
- · High level of contact reliability with low voltages and currents
- · Insensitive to soiling
- · Slotted holes for adjustment, circular holes for location
- 3 cable entries M 16 x 1.5

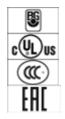
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description Article number EAN Code eCl@ss AZ 16-02ZVRK 101147145 4030661141671 27-27-26-02

Approval





Classification

Standards B10d Normally-closed contact (NC) Mission time notice EN ISO 13849-1 2.000.000 20 Years $MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{0.000 \text{ s/h}}$

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Global Properties

Permanent light	AZ 16
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) CE	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	115

Design of electrical connection Screw connection Cable section - Min. Cable section 0,75 - Max. Cable section 2.5 Mechanical life > 1.000.000 operations All indications about the cable section are including the conductor ferrules. notice higher Latching force (Y/N) Yes Latching force 30 With ejection force (Y/N) No Positive break force 20 positive break travel 8 mm Actuating speed 2 m/s max.

Ambient conditions

Mechanical data

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	Snap action with self-cleaning contact
Number of auxiliary contacts	0
Number of safety contacts	2
Rated impulse withstand voltage Uimp	4 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

52 mm 90 mm

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor	
- Width of sensor	
- Height of sensor	

Included in delivery

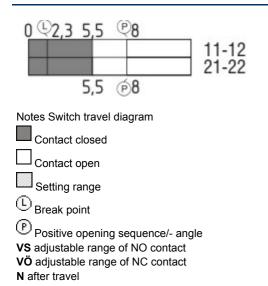
Actuators must be ordered separately.

Diagram



•____• Normally-closed contact

Switch travel diagram



Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZ 16-02ZVRK-**2254**

2254	Latching force 5 N
-M20	cable entries M20

Ordering code

AZ 16-(1)ZV(2)K-(3)-(4)-(5)

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without1 Normally open contact (NO) / 1 Opener (NC)022 Opener (NC)033 Opener (NC)

12	Normally open contact (NO) 1 / Opener (NC) 2
(2)	
without	Ejection force
R	Latching force 30 N
(3)	
G24	with LED (only available for version with one NO and one NC contact.)
(4)	
without	Cable entry M16
M20	Cable entry M20
ST	Connector M12, 4-pole, bottom
STL	Connector M12, 4-pole, left
STR	Connector M12, 4-pole, right
(5)	
2254	Latching force 5 N
1762	Front mounting
1637	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 (cs) 400 kB, 11.10.2011 Code: mrl_az15-16_cs

Operating instructions and Declaration of conformity (es) 281 kB, 09.03.2016 Code: mrl_az15-16_es

Operating instructions and Declaration of conformity (pl) 313 kB, 15.04.2016 Code: mrl_az15-16_pl

Operating instructions and Declaration of conformity (sv) 275 kB, 17.06.2015 Code: mrl_az15-16_sv

Operating instructions and Declaration of conformity (da) 398 kB, 17.11.2011 Code: mrl_az15-16_da

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 (fi) 256 kB, 02.07.2015 Code: mrl_az15-16_fi

Operating instructions and Declaration of conformity (it) 275 kB, 15.04.2016 Code: mrl_az15-16_it

Operating instructions (en) 141 kB, 16.05.2018 Code: mrl_ms_az15-16_en

Operating instructions (de) 140 kB, 16.05.2018 Code: mrl_ms_az15-16_de

Operating instructions (es) 137 kB, 05.06.2018 Code: mrl_ms_az15-16_es

Operating instructions (pl) 178 kB, 13.08.2018 Code: mrl_ms_az15-16_pl

Operating instructions (fr) 137 kB, 05.06.2018 Code: mrl_ms_az15-16_fr

Operating instructions (nl) 141 kB, 23.07.2018 Code: mrl_ms_az15-16_nl

Operating instructions (pt) 142 kB, 08.08.2018 Code: mrl_ms_az15-16_pt

BG-test certificate (en) 135 kB, 18.11.2014 Code: z_z15p02

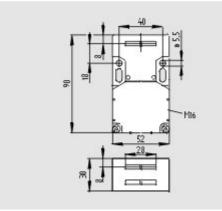
BG-test certificate (de) 138 kB, 18.11.2014 Code: z_z15p01

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)

System components

Actuator	101083036 - AZ 15/16-B1
	101092711 - AZ 15/16-B1-1747
	 For play-free interlocking of light guards Suitable for retrofitting
a-1-194227.	101093553 - 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
	101108276 - AZ 15/16-B1-2024
	101108278 - AZ 15/16-B1-2024 WITH SLOT SEALING PLUG
dh	For protection against the ingress of course dirt