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# Datasheet - AZ 16ZVK-ST

Safety switch with separate actuator / AZ 16

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
- 2 cable entries M 16 x 1.5
- Connector M12, 4-pole

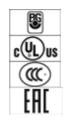
(Minor differences between the printed image and the original product may exist!)

### **Ordering details**

Product type description Article number EAN Code eCl@ss AZ 16ZVK-ST 101143122 4030661127194 27-27-26-02

# Approval

Approval



# Classification

Standards B10d Normally-closed contact (NC) B10d Normally open contact (NO) - notice Mission time notice EN ISO 13849-1 2.000.000 1.000.000 at 10% le and ohmic load 20 Years  $MTTF_{d} = \frac{B_{100}}{0.1 \times n_{op}}$  $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{0.000 \text{ s/h}}$ 

t <sub>oyole</sub>

# **Global Properties**

Permanent light	AZ 16
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) ${\sf C}{f \epsilon}$	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	120

# Mechanical data

Connector M8, 6-pole, Latching interlocking
> 1.000.000 operations
No
Yes
10
8 mm
2 m/s max.

# **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	Normally open contact (NO), Opener (NC)
Switching principle	Snap action with self-cleaning contact
Number of auxiliary contacts	1
Number of safety contacts	1
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

# ATEX

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

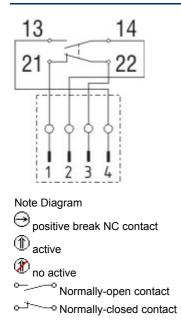
# Dimensions

- Width of sensor 52 mm - Height of sensor 90 mm	
- Height of sensor 90 mm	
- Length of sensor 30 mm	

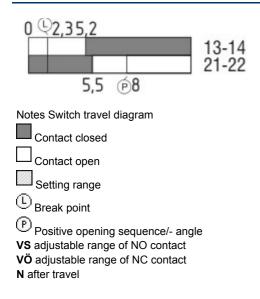
# Included in delivery

Actuators must be ordered separately.

# Diagram



# 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 16ZVK-STL

L	Plug-in connection M12 left
<b>R</b>	Plug-in connection M12 right
M20	cable entries M20

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

(1)	
without	1 Normally open contact (NO) / 1 Opener (NC)
02	2 Opener (NC)
03	3 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

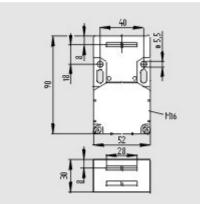
**BG-test certificate** (de) 138 kB, 18.11.2014 Code: z\_z15p01

CCC certification (cn) 3 MB, 18.10.2017 Code: q\_175p03

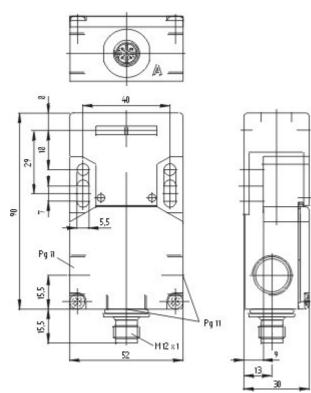
CCC certification (en) 3 MB, 29.08.2017 Code: q\_175p02

EAC certification (ru) 844 kB, 05.10.2015 Code: q\_6037p17\_ru

#### Images



Dimensional drawing (basic component)



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



- 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

· For protection against the ingress of course dirt

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 13.02.2019 - 14:36:09h Kasbase 3.3.0.F.64I