13.02.2019

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# Datasheet - AZ 17-11ZI-ST-B5

Safety switch with separate actuator / AZ 17ZI / AZ 17/170ZI-B5





Thermoplastic enclosure

- Double-insulated
- Long life
- 30 mm x 60 mm x 30 mm
- Small body
- Individual coding
- Coding level "High" according to ISO 14119
- · High level of contact reliability with low voltages and currents
- Insensitive to soiling
- 8 actuating planes
- Slot sealing plug included
- Particularly suitable for hinged guards (front mounting)
- Connector M12 x 1, 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

## Approval

Approval

## Classification

Standards B10d Normally-closed contact (NC) B10d Normally open contact (NO) - notice Mission time notice AZ 17-11ZI-ST-B5 101144081 4030661130804 27-27-26-02



EN ISO 13849-1 2.000.000 1.000.000 at 10% le and ohmic load 20 Years MTTF<sub>d</sub> =  $\frac{B_{100}}{0.1 \times n_{op}}$  $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{0.000 \text{ s/h}}$ 

t cycle

## **Global Properties**

Permanent light	AZ 17ZI
Standards	EN 60947-5-1, BG-GS-ET-15
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the actuator	Stainless steel
- Material of the contacts	Silver
Housing coating	None
Weight	100

## Mechanical data

Design of electrical connection	Connector M12
Mechanical life	> 1.000.000 operations
higher Latching force (Y/N)	No
Latching force	5
Positive break force	17 N
positive break travel	11 mm
Max. Actuating speed	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	Normally open contact (NO), Opener (NC)
Switching	principle	Creep circuit element
Number o	f auxiliary contacts	1
Number o	f safety contacts	1
Supply vo	Itage	
- Min. sı	upply voltage	
- Max. s	upply voltage	230 V
Rated imp	ulse withstand voltage Uimp	4 kV
Rated insi	ulation voltage Ui	250 V
Thermal te	est 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

- Height of sensor	85
- Length of sensor	30

On hinged guards, minimum actuating radius at 90° to the plane of the actuator 140 mm minimum actuating radius on hinged guards in line with the plane of the actuator 200 mm The axis of the hinge should be 13 mm above the top edge of the safety switch and in the same plane The actuator is not available separately.

## Included in delivery

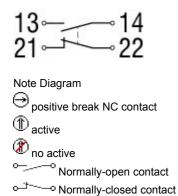
Not available as spare part Included in delivery

· Individually coded actuator

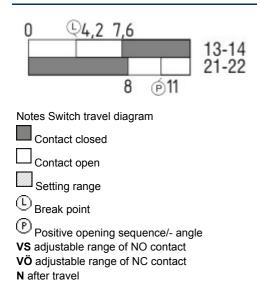
- tamperproof screws
- Slot sealing plugs

#### Diagram

notice



#### 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 17-11ZI-ST-B5**-2243** 

2243 -1	Cable output: rear
1637	0,3 µm gold-plated contacts
6M	Cable length 6 Meter
5M	Cable length 5 Meter

## Ordering code

AZ 17- <mark>(1)Z(2)I-(3)-(4)-(5)</mark>	
(1)	
11	1 Normally open contact (NO) / 1 Opener (NC)
02	2 Opener (NC)
(2)	
without	Latching force 5 N
R	Latching force 30 N
(3)	
without	cable gland M16
ST	Connector M12
(4)	
B1	Actuator B1
B5	Actuator B5
B6L	Actuator B6L
B6R	Actuator B6R
(5)	
1637	gold-plated contacts

## **Documents**

**Operating instructions and Declaration of conformity** (pl) 587 kB, 08.07.2016 Code: mrl\_az17i\_pl

**Operating instructions and Declaration of conformity** (es) 556 kB, 27.04.2016 Code: mrl\_az17i\_es

**Operating instructions and Declaration of conformity** (en) 551 kB, 22.04.2016 Code: mrl\_az17i\_en

**Operating instructions and Declaration of conformity** (fr) 554 kB, 29.04.2016 Code: mrl\_az17i\_fr

**Operating instructions and Declaration of conformity** (it) 550 kB, 22.04.2016 Code: mrl\_az17i\_it

**Operating instructions and Declaration of conformity** (de) 556 kB, 22.04.2016 Code: mrl\_az17i\_de

Operating instructions and Declaration of conformity (pt) 555 kB, 13.05.2016

Code: mrl\_az17i\_pt

**Operating instructions and Declaration of conformity** (jp) 721 kB, 02.05.2016 Code: mrl\_az17i\_jp

**Operating instructions and Declaration of conformity** (cn) 675 kB, 21.06.2017 Code: mrl\_az17i\_cn

**Operating instructions and Declaration of conformity** (nl) 585 kB, 29.06.2018 Code: mrl\_az17i\_nl

**Operating instructions and Declaration of conformity** (br) 606 kB, 17.05.2016 Code: mrl\_az17i\_br

**Operating instructions and Declaration of conformity** (de) 121 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_de

**Operating instructions and Declaration of conformity** (pl) 160 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_pl

**Operating instructions and Declaration of conformity** (it) 120 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_it

**Operating instructions and Declaration of conformity** (da) 134 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_da

**Operating instructions and Declaration of conformity** (pt) 120 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_pt

**Operating instructions and Declaration of conformity** (en) 120 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_en

**Operating instructions and Declaration of conformity** (cs) 157 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_cs

**Operating instructions and Declaration of conformity** (jp) 215 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_jp

**Operating instructions and Declaration of conformity** (sv) 121 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_sv

**Operating instructions and Declaration of conformity** (nl) 120 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_nl

**Operating instructions and Declaration of conformity** (fr) 121 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_fr

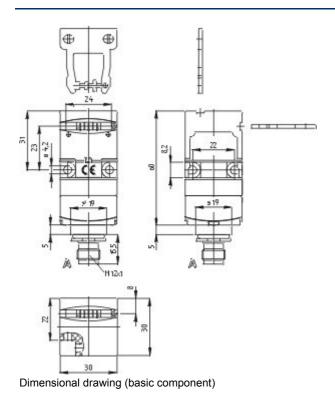
**Operating instructions and Declaration of conformity** (es) 120 kB, 24.09.2018 Code: mrl\_az17-azm170-betaetiger\_es

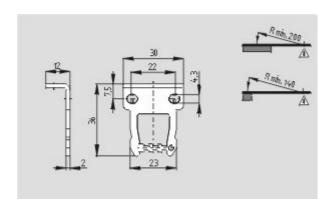
**BG-test certificate** (en) 159 kB, 26.11.2015 Code: z\_z17p02

**BG-test certificate** (de) 181 kB, 26.11.2015 Code: z\_z17p01 **CCC certification** (cn) 3 MB, 18.10.2017 Code: q\_175p03

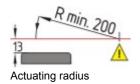
**CCC certification** (en) 3 MB, 29.08.2017 Code: q\_175p02

### Images





Dimensional drawing (actuator)





Actuating radius

## Connector



S SCHMERSAL

### S-K4M12

- Connector without cable
- 4-pole

## A-K4M12

Pre-wired cable

4-pole

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 - 14:37:30h Kasbase 3.3.0.F.64I