Datasheet - AZ201SK-T-1P2P

Safety switch with separate actuator / AZ201





- · Thermoplastic enclosure
- RFID-technology for needs-based protection against tampering
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring of 31 sensors
- 3 LEDs to show operating conditions
- ullet Sensor technology permits an offset between actuator and interlock of ${f \pm}$ 5 mm vertically and ± 3 mm horizontally
- · Suitable for hinged and sliding guards
- · Intelligent diagnosis

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

Ordering details

Product type description AZ201SK-T-1P2P Article number 103015815 EAN Code 4030661504292 eCl@ss 27-27-26-02

Approval

Approval



Classification

PL

SIL

Standards EN ISO 13849-1, IEC 61508

up e Control category up 4 PFH 1.9 x 10-9/ PFD value 1.6 x 10-4

Mission time 20 Years

Global Properties

Permanent light AZ201

Standards IEC 60947-5-1, IEC 60947-5-3, ISO 14119, ISO 13849-1, IEC 61508, IEC

62061

Compliance with the Directives (Y/N) € Yes
Suitable for safety functions (Y/N)

Protection rating

III

Series-wiring up to 31 components

Length of the sensor chain 200

Active principle RFID, 125 kHz

Coding levels according to ISO 14119 low

Coding Universal coding

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic

Housing coating None Weight 550 g

Idle assignable pushbutton and LED (Y/N) No

Response time

- Actuator ≤ 100 ms
- Inputs ≤ 0,5 ms

Duration of risk < 200 ms

Time to readiness < 4000 ms

Recommended actuator AZ/AZM201-B1, AZ/AZM201-B30

Mechanical data

Design of electrical connection Screw connection

Cable section

 - Min. Cable section
 0,25

 - Max. Cable section
 1.5

 AWG-Number
 23 - 15

Mechanical life ≥ 1.000.000 operations

notice All indications about the cable section are including the conductor ferrules.

restistance to shock 30 / 11

Resistance to vibration 10 ... 150 HZ, Amplitude 0,35 mm

Emergency unlocking device (Y/N) No Manual release (Y/N) No Emergency release (Y/N) No Latching force 30 Max. Actuating speed ≤ 0.2

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +70

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 Relative humidity
 30... 95

- non-condensing

Protection class IP66, IP67 to IEC/EN 60529

Air clearances and creepage distances To IEC/EN 60664-1

- Rated impulse withstand voltage 0,8

- Overvoltage category

Ш

- Degree of pollution

3

Electrical data

Number of auxiliary contacts 0
Number of safety contacts 2

Cross circuit/short circuit recognition possible (Y/N)

Yes

0,1 A

Supply voltage

No-load current

- Min. supply voltage 20.4 VDC
- Max. supply voltage 26.4 VDC
Switch frequency 1 HZ
Rated insulation voltage 32 VDC
Operating current 0,7 A
Utilisation category DC-13

Device insulation ≤ 4 A if used in accordance with UL 508

Electrical data - Safety inputs

Safety inputs X1 and X2

Rated operating voltage $-3 \dots 5 \text{ (Low)}$ $15 \dots 30 \text{ (High)}$

Operating current typically 2 at 24

Electrical data - Safety outputs

Safety outputs Y1 and Y2

Fuse rating short-circuit proof, p-type

Rated operating voltage $0 \dots 4$ under Residual current ≤ 0.5

Operating current each 0,25 A
Utilisation category DC-13

Electrical data - Diagnostic output

Serial diagnostics (Y/N) No

Fuse rating p-type, short-circuit proof

Operating current 0,05 A

Utilisation category DC-13: 24 V / 0,05 A

Wiring capacitance for serial diagnostics -

Operating principle of the diagnostic output The short-circuit proof diagnostic output OUT can be used for central

visualisation or control tasks, e.g. in a PLC.

notice The diagnostic output is not a safety-relevant output!

LED switching conditions display

LED switching conditions display (Y/N)

Yes

LED switching conditions display

- Supply voltage green LED
- switching condition yellow LED
- Error functional defect red LED

ATEX

Explosion protection categories for gases	None	
Explosion protected category for dusts	None	
Dimensions		
Dimensions of the sensor		
- Width of sensor	40	
- Height of sensor	220	
- Length of sensor	50	
Pin assignment		
1	-	
2	-	
3	-	
4	-	
5	-	
6	-	
7	-	
8	-	
Included in delivery		
Actuators must be ordered separately.		

Ordering code

AZ201(1)-T-(2)

(1)

SKScrew connectionCCSpring pulley connectionST1connector M23 x 1, 8+1-poleST2connector M12 x 1, 8-pole

(2)

1P2P1 Diagnostic output and 2 Safety outputs, p-typeSD2Pserial diagnostic output and 2 Safety outputs, p-type

Documents

Operating instructions and Declaration of conformity (pt) 153 kB, 16.10.2017

Code: mrl_az201_pt

Operating instructions and Declaration of conformity (fr) 343 kB, 19.10.2017

Code: mrl_az201_fr

Operating instructions and Declaration of conformity (it) 315 kB, 16.10.2017

Code: mrl_az201_it

Operating instructions and Declaration of conformity (pl) 364 kB, 02.03.2018

Code: mrl_az201_pl

Operating instructions and Declaration of conformity (es) 152 kB, 16.10.2017

Code: mrl_az201_es

Operating instructions and Declaration of conformity (nl) 341 kB, 02.08.2018

Code: mrl_az201_nl

Operating instructions and Declaration of conformity (en) 313 kB, 04.10.2017

Code: mrl_az201_en

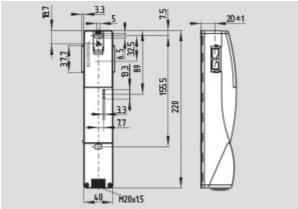
Operating instructions and Declaration of conformity (de) 301 kB, 04.10.2017

Code: mrl_az201_de

TÜV certification (de, en) 352 kB, 06.02.2018

Code: z_azmp07

Images



Dimensional drawing (miscellaneous)

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 - 14:39:25h Kasbase 3.3.0.F.64I