Datasheet - AZ 200SK-T-1P2P

Safety switch with separate actuator / AZ 200





- NOTICE: Available until 2020.12.31 (substitute: AZ201)
- Thermoplastic enclosure
- Screw connection
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring of 31 sensors
- 3 LEDs to show operating conditions
- \bullet Sensor technology permits an offset between actuator and interlock of \pm 5 mm vertically and \pm 3 mm horizontally
- · Intelligent diagnosis



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

Ordering details

 Product type description
 AZ 200SK-T-1P2P

 Article number
 101182254

 EAN Code
 4030661317267

 eCl@ss
 27-27-26-02

Approval

Approval



Classification

Standards

PL

Control category

PFH

SIL

Mission time TM Classification

EN ISO 13849-1, IEC 61508

е

4

4.0 x 10-9/h

3

20 Years PDF-M

Global Properties

Permanent light AZ 200

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

Compliance with the Directives (Y/N)

Yes

Suitable for safety functions (Y/N)

Yes

Series-wiring up to 31 components

Length of the sensor chain max. 200 m

Active principle Non-contact

Duty cycle ED 100 %

Materials

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

Housing coating None Weight 345 Actuator monitored (Y/N) Yes Idle assignable pushbutton and LED (Y/N) No Reaction time ≤ 60

Reaction time \leq 60

Duration of risk > 120

Time to readiness 4000

Recommended actuator AZ/AZM 200-B1

Mechanical data

Design of electrical connection Screw connection

Cable section

- Min. Cable section 0,25- Max. Cable section 1.5

AWG-Number 30.1 - 14.7

Mechanical life ≥ 1.000.000 operations

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

restistance to shock 30 g / 11 ms

Resistance to vibration 10 ... 55 HZ, Amplitude 1 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

Storage and transport temperature

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

- non-condensing

Protection class IP67 to IEC/EN 60529

Protection rating II

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

Rated impulse withstand voltage U_{imp} 0,8 kV
 Overvoltage category III
 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

 Switch frequency
 1

Rated insulation voltage Ui 32 VDC

Rated operating voltage Ue

- Min. Rated operating voltage 20.4 VDC
- Max. Rated operating voltage 26.4 VDC
Operating current le 0,7 A
Utilisation category DC-13
No-load current lo 0,1 A

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

Electrical data - Safety inputs

Safety inputs X1 and X2

Rated operating voltage U_e $-3~V~\dots 5~V~(Low)$

15 V ... 30 V (High)

Operating current le > 2 mA / 24 V

Electrical data - Safety outputs

Safety outputs Y1 and Y2

Fuse rating short-circuit proof

Design of control output p-type

Rated operating voltage 0 V ... 4 V under Ue

Residual current I_r $\leq 0.5 \text{ mA}$ Operating current I_e 0,25 A

Utilisation category DC-13: 24 V / 0,25 A

Electrical data - Diagnostic output

Serial diagnostics (Y/N) No

Fuse rating short-circuit proof

Design of control output p-type
Operating current le 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)

LED switching conditions display

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

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor
- Length of sensor
50

Included in delivery

Actuators must be ordered separately.

Ordering code

AZ 200(1)-T-(2)

(1)

SK Screw connection

CC Spring pulley connection

ST1 connector M23 x 1, 8+1-pole

ST2 connector M12 x 1, 8-pole

(2)

1 Diagnostic output and 2 Safety outputs, p-type

SD2P 1 Diagnostic output and 2 Safety outputs, p-type

serial diagnostic output and 2 Safety outputs, p-type

Documents

Operating instructions and Declaration of conformity (nl) 313 kB, 01.08.2018

Code: mrl_az200t_nl

Operating instructions and Declaration of conformity (it) 313 kB, 09.01.2018

Code: mrl_az200t_it

Operating instructions and Declaration of conformity (en) 312 kB, 29.11.2017

Code: mrl_az200t_en

Operating instructions and Declaration of conformity (cs) 293 kB, 27.02.2012

Code: mrl_az200t_cs

Operating instructions and Declaration of conformity (cn) 359 kB, 01.06.2017

Code: mrl_az200t_cn

Operating instructions and Declaration of conformity (jp) 1 MB, 17.11.2010

Code: mrl_az200t_jp

Operating instructions and Declaration of conformity (de) 271 kB, 29.11.2017

Code: mrl_az200t_de

Operating instructions and Declaration of conformity (es) 328 kB, 16.01.2018

Code: mrl_az200t_es

Operating instructions and Declaration of conformity (fr) 315 kB, 01.02.2018

Code: mrl_az200t_fr

Operating instructions and Declaration of conformity (da) 292 kB, 26.01.2012

Code: mrl_az200t_da

Operating instructions and Declaration of conformity (pt) 319 kB, 22.01.2018

Code: mrl_az200t_pt

Operating instructions and Declaration of conformity (pl) 336 kB, 23.05.2018

Code: mrl_az200t_pl

Operating instructions and Declaration of conformity (sv) 289 kB, 19.03.2012

Code: mrl_az200t_sv

Brochure (de) 6 MB, 15.02.2018

Code: b_css_brosch09_de

Brochure (en) 6 MB, 15.02.2018

Code: b_css_brosch09_en

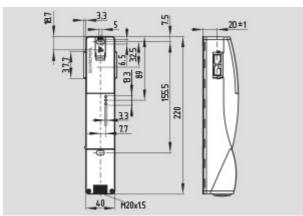
TÜV certification (de, en) 848 kB, 09.08.2017

Code: z_azmp04

EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (miscellaneous)

System components

Actuator



- · Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel



101183469 - AZ/AZM 200-B1-RT

- · Actuators with return spring
- · Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel



101183466 - AZ/AZM 200-B1-LTP0

- · Actuators with return spring
- · Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel



101183465 - AZ/AZM 200-B1-LT

- · Actuators with return spring
- · Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel



101178680 - AZ/AZM 200-B30-RTAG1

- Actuator for hinged guards
- With door detection sensor T
- Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- Various handles available

Greater mechanical stability



101178738 - AZ/AZM 200-B30-RTAG1P1

- One-hand emergency exit, even in de-energised condition
- Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- No supplementary door handles required
- Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101186144 - AZ/AZM 200-B30-RTAG1P20

- One-hand emergency exit, even in de-energised condition
- Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- No supplementary door handles required
- Does not protrude into the door opening



101192103 - AZ/AZM 200-B30-RTAG1P25

- · One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- · Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101181139 - AZ/AZM 200-B30-RTAG2

- · Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- · Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101181143 - AZ/AZM 200-B30-RTAG2P1

- · One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101191659 - AZ/AZM 200-B30-RTAG2P20

- · One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- · Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101192104 - AZ/AZM 200-B30-RTAG2P25

- · One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- · Easy and intuitive operation
- No risk of injury from protruding actuator
- · No supplementary door handles required
- · Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101181137 - AZ/AZM 200-B30-LTAG2

- · Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- No supplementary door handles required
- · Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101181141 - AZ/AZM 200-B30-LTAG2P1

- One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- · Easy and intuitive operation
- No risk of injury from protruding actuator
- · No supplementary door handles required
- · Does not protrude into the door opening
- Various handles available

Greater mechanical stability



101189020 - AZ/AZM 200-B30-LTAG2P20

- One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- · Easy and intuitive operation
- No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- · Various handles available

Greater mechanical stability



101192106 - AZ/AZM 200-B30-LTAG2P25

- One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- With door detection sensor T
- Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- Various handles available

Greater mechanical stability



101178681 - AZ/AZM 200-B30-LTAG1

- · Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- Various handles available

Greater mechanical stability

101178668 - AZ/AZM 200-B30-LTAG1P1

- One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- Easy and intuitive operation



- No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- Various handles available Greater mechanical stability



101186150 - AZ/AZM 200-B30-LTAG1P20

- One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- · With door detection sensor T
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- · Does not protrude into the door opening
- Various handles available Greater mechanical stability



101192102 - AZ/AZM 200-B30-LTAG1P25

- One-hand emergency exit, even in de-energised condition
- · Actuator for hinged guards
- With door detection sensor T
- · Easy and intuitive operation
- No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- Various handles available
 Greater mechanical stability

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 - 14:38:13h Kasbase 3.3.0.F.64l