13.02.2019

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Datasheet - AZ 200CC-T-SD2P

Safety switch with separate actuator / AZ 200





• NOTICE: Available until 2020.12.31 (substitute: AZ201)

- Thermoplastic enclosure
- serial diagnostic output
- Spring pulley 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
Article number
EAN Code
eCl@ss

AZ 200CC-T-SD2P AZ 200CC-T-SD2P

27-27-26-02

Approval

Approval



Classification

Standards	EN ISO 13849-1, IEC 61508
PL	e
Control category	4
PFH	4.0 x 10-9/h
SIL	3
Mission time TM	20 Years
Classification	PDF-M

Global Properties

	17.000
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) CE	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	
Actuator monitored (Y/N)	Yes
Idle assignable pushbutton and LED (Y/N)	No
Reaction time	≤ 60
Duration of risk	> 120
Time to readiness	4000
Recommended actuator	AZ/AZM 200-B1

Mechanical data

Design of electrical connection	Spring pulley 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
Switch distance Sn	6.5 mm
Ensured switch distance ON Sao	4 mm
Ensured switch distance OFF Sar	30 mm
hysteresis	max. 1.5
Repeat accuracy R R	< 0,5 mm
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	-25
- Max. environmental temperature	+70
Storage and transport temperature	
- Min. Storage and transport temperature	-25
- Max. Storage and transport temperature	+85
Relative humidity	30 95
- non-condensing	
Protection class	IP67 to IEC/EN 60529

Protection rating	П
Air clearances and creepage distances To IEC/EN 60664-1	
- Rated impulse withstand voltage Uimp	0,8 kV
- 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
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 Ue	- 3 V 5 V (Low) 15 V 30 V (High)
Operating current le	> 2 mA / 24 V

Electrical data - Safety outputs

Y1 and Y2
short-circuit proof
p-type
$0~V \ldots 4~V$ under U_{e}
≤ 0,5 mA
0,25 A
DC-13: 24 V / 0,25 A

Electrical data - Diagnostic output

Serial diagnostics (Y/N)	Yes
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	max. 50 nF
diagnostic signals	to SD-interface
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

- Supply voltage
- switching condition
- Error functional defect

ATEX

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

green LED

yellow LED

red LED

Dimensions

Dimensions of the sensor	
- Width of sensor	40
- Height of sensor	220
- Length of sensor	50

Included in delivery

Actuators must be ordered separately.

Ordering code

AZ 200 <mark>(1)</mark> -T- <mark>(2)</mark>	
(1)	
SK	Screw connection
сс	Spring pulley connection
ST1	connector M23 x 1, 8+1-pole
ST2	connector M12 x 1, 8-pole
(2)	
1P2P	1 Diagnostic output and 2 Safety outputs, p-type
SD2P	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

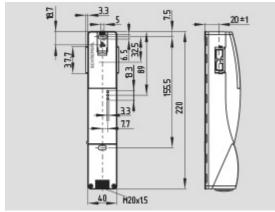
Brochure (de) 6 MB, 15.02.2018 Code: b_css_brosch09_de

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



- · Actuators with return spring
- 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 supplementary door handles required
- · Does not protrude into the door opening

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

 - Various handles available
 - Greater mechanical stability



- 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 - 14:38:10h Kasbase 3.3.0.F.64I

