



AZ201-I2-CC-T-1P2P

- Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119
- Thermoplastic enclosure
- RFID-technology for needs-based protection against tampering
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring
- 3 LEDs to show operating conditions
- Sensor technology permits an offset between actuator and interlock of ± 5 mm vertically and ± 3 mm horizontally
- Suitable for hinged and sliding guards
- Intelligent diagnosis

Data

Ordering data

Product type description	AZ201-I2-CC-T-1P2P
Article number (order number)	103015817
EAN (European Article Number)	4030661504315
eCl@ss number, version 12.0	27-27-26-02
eCl@ss number, version 11.0	27-27-26-02
eCl@ss number, version 9.0	27-27-26-02
ETIM number, version 7.0	EC002592
ETIM number, version 6.0	EC002592

Approvals - Standards

Certificates

TÜV
cULus
FCC
IC
UKCA
ANATEL

General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-3 EN IEC 61508
Coding	Individual coding, multiple teaching
Coding level according to EN ISO 14119	High
Working principle	RFID, 125 kHz
Transmitter output RFID, maximum	-6 dB/m
Housing material	Glass-fibre, reinforced thermoplastic
Duration of risk, maximum	200 ms
Reaction time, switching off safety outputs via actuator, maximum	100 ms
Reaction time, switching off safety outputs via safety inputs, maximum	0.5 ms
Gross weight	392 g

General data - Features

Short circuit detection	Yes
Cross-circuit detection	Yes
Series-wiring	Yes
Safety functions	Yes
Integral system diagnostics, status	Yes
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1 EN IEC 61508
Performance Level, up to	e
Category	4
PFH value	1.90×10^{-9} /h

PFD value	1.60 x 10 ⁻⁴
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Latching force	30 N
Actuating speed, maximum	0.2 m/s
Type of the fixing screws	2x M6
Tightening torque of the fastening screws for the housing cover, minimum	0.7 Nm
Tightening torque of the fastening screws for the housing cover, maximum	1 Nm
Note	Torx T10

Mechanical data - Switching distances according EN IEC 60947-5-3

Assured switching distance "ON" S _{ao}	4 mm
Assured switching distance "OFF" S _{ar}	30 mm
Hysteresis (Switching distance), maximum	1.5 mm
Repeat accuracy R	0.5 mm

Mechanical data - Connection technique

Length of sensor chain, maximum	200 m
Note (length of the sensor chain)	Cable length and cross-section change the voltage drop depending on the output current
Note (series-wiring)	Unlimited number of devices, observe external line fusing, max. 31 devices in case of serial diagnostic SD
Termination	Spring pulley connection
Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²
Note	All indications including the conductor ferrules.

Wire cross-section, minimum	23 AWG
Wire cross-section, maximum	15 AWG
Wire cross-section	23 ... 15 AWG
Allowed type of cable	solid single-wire solid multi-wire flexible

Mechanical data - Dimensions

Length of sensor	50 mm
Width of sensor	40 mm
Height of sensor	220 mm

Ambient conditions

Degree of protection	IP66 IP67
Ambient temperature	-25 ... +70 °C
Storage and transport temperature	-25 ... +85 °C
Relative humidity, maximum	93 %
Note (Relative humidity)	non-condensing non-icing
Resistance to vibrations	10 ... 150 Hz, amplitude 0.35 mm
Resistance to shock	30 g / 11 ms
Protection class	III
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overtoltage category	III
Degree of pollution	3

Electrical data

Operating voltage	24 VDC -15 % / +10 %
No-load supply current I_0 , typical	50 mA
Rated operating voltage	24 VDC
Operating current	700 mA
Required rated short-circuit current	100 A
External wire and device fuse rating	4AGG
Time to readiness, maximum	4,000 ms
Switching frequency, maximum	1 Hz

Electrical data - Safety digital inputs

Designation, Safety inputs	X1 and X2
Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
Current consumption at 24 V	5 mA
Test pulse duration, maximum	1 ms
Test pulse interval, minimum	100 ms
Classification ZVEI CB24I, Sink	C1
Classification ZVEI CB24I, Source	C1 C2 C3

Electrical data - Safety digital outputs

Designation, Safety outputs	Y1 and Y2
Rated operating current (safety outputs)	250 mA
Design of control elements	short-circuit proof, p-type
Voltage drop U_d , maximum	4 V
Leakage current I_p , maximum	0.5 mA
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.25 A
Test pulse interval, typical	1000 ms
Test pulse duration, maximum	0.5 ms

Classification ZVEI CB24I, Source	C2
Classification ZVEI CB24I, Sink	C1 C2

Electrical data - Diagnostic outputs

Designation, Diagnostic outputs	OUT
Operating current	50 mA
Design of control elements	short-circuit proof, p-type
Voltage drop U_d , maximum	4 V
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.05 A

Status indication

Note (LED switching conditions display)	Operating condition: LED green Error / functional defect: LED red Supply voltage UB: LED green
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Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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Accessory

Recommendation (actuator)	AZ/AZM201-B1 AZ/AZM201-B30
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Ordering code

Product type description:
AZ201-(1)-(2)-T-(3)

without	Standard coding
I1	Individual coding
I2	Individual coding, re-teaching enabled

(2)

SK	Screw connection
CC	Cage clamps
ST2	Connector plug M12, 8-pole

(3)

1P2P	1 p-type diagnostic output and 2 p-type safety outputs
SD2P	serial diagnostic output and 2 p-type safety outputs

Pictures

Product picture (catalogue individual photo)



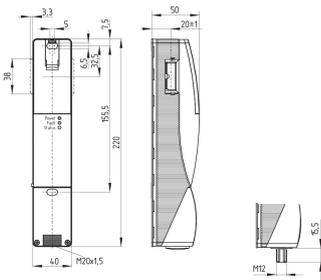
ID: kazm2f48

| 335.0 kB | .png | 74.083 x 340.783 mm - 210 x 966 px - 72 dpi

| 735.6 kB | .jpg | 135.819 x 625.122 mm - 385 x 1772 px - 72 dpi

| 23.6 kB | .jpg | 26.811 x 123.472 mm - 76 x 350 px - 72 dpi

Dimensional drawing basic component



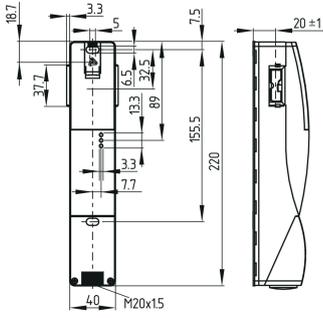
ID: 1azm2g12

| 146.3 kB | .jpg | 352.778 x 308.681 mm - 1000 x 875 px - 72 dpi

| 5.3 kB | .png | 74.083 x 64.911 mm - 210 x 184 px - 72 dpi

| 21.1 kB | .jpg | 169.686 x 148.519 mm - 481 x 421 px - 72 dpi

Assembly example



ID: 1azm2m17

| 167.9 kB | .jpg | 352.778 x 346.428 mm - 1000 x 982 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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