

AZM201Z-ST-T-1P2PW-A-2965-1



- Power to lock
- Manual release
- Intelligent diagnosis
- Thermoplastic enclosure
- Self-monitoring series-wiring
- 3 LEDs to show operating conditions
- Max. length of the sensor chain 200 m
- Suitable for hinged and sliding guards
- RFID-technology for needs-based protection against tampering
- Sensor technology permits an offset between actuator and interlock of ± 5 mm vertically and ± 3 mm horizontally

Data

Ordering data

AZM201Z-ST-T-1P2PW-A-2965-1
103025498

EAN (European Article Number) 4030661513829

eCl@ss number, Version 9.0 27-27-26-03

Approval - Standards

TÜV
cULus
EAC
FCC
IC

General data

AZM 201

	IEC 60947-5-1
	ISO 13849-1
	IEC 61508
	IEC 60947-5-3
	ISO 14119
	IEC 62061
general information	Universal coding
Coding level according to ISO 14119	Low
	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	610 g
Time to readiness, maximum	4,000 ms
Duration of risk, maximum	200 ms

General data - Features

Power to lock	Yes
Guard locking monitored	Yes
Manual release	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Idle assignable pushbutton	Yes
Freely assignable LED	Yes
Safety functions	Yes
Integral System	Yes
Diagnostics, status	Yes
Number of safety contacts	2
Number of Series-wiring of sensors	31

Safety appraisal

ISO 13849-1
IEC 62061
IEC 61508

Safety appraisal - Interlocking

Performance level, up to	e
Control category	4
PFH-value	$1.90 \times 10^{-9} / \text{h}$
PFD value	1.60×10^{-4}
Safety Integrity Level (SIL), applicable for	3
Mission Time	20 Year(s)

Safety appraisal - Guard locking

Performance level, up to	d
Control category	2
PFH-value	1.00×10^{-8} /h
PFD value	8.90×10^{-4}
Safety Integrity Level (SIL), applicable for	2
Mission Time	20 Year(s)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Clamping force in accordance with ISO14119 F zh	2,000 N
Clamping force, maximum F max	2,600 N
Latching force	30 N
Actuating speed, maximum	0.2 m/s

Mechanical data - Connection technique

Terminal Connector	Connector M23, 12-pole
Wire cross-section, minimum	23 AWG
Wire cross-section, maximum	15 AWG

Mechanical data - Dimensions

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

Ambient conditions

Protection class	IP66 to IEC 60529 IP67 to IEC 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Relative humidity, minimum	30 %

Relative humidity, maximum 95 %

Note (Relative humidity) non-condensing

Resistance to vibrations to
EN 60068-2-6 10 ... 150 Hz, amplitude 0.35 mm

30 g / 11 ms

III

Ambient conditions - Insulation value

Rated impulse withstand
voltage 0.8 kV

III

3

Electrical data

Operating voltage, minimum 20.4 VDC

Operating voltage,
maximum 26.4 VDC

No-load current 600 mA

Operating current 1,200 mA

Reaction time of actuator,
maximum 100 ms

Reaction time of input,
maximum 0.5 ms

Switching frequency,
approx. 1 Hz

Electrical data - Solenoid control

-3 V ... 5 V (Low)

15 V ... 30 V (High)

C0

C1

C2

C3

Electrical data - Fail-safe digital inputs

-3 V ... 5 V (Low)

15 V ... 30 V (High)

C1

C1

C2

C3

Electrical data - Fail-safe digital outputs

Rated operating current
(safety outputs) 250 mA

Voltage drop U_d , maximum	4 V
Current leakage	0.5 mA
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.3 A
	C2
	C1
	C2

Electrical data - Diagnostic output

Operating current (diagnostic output)	50 mA
Voltage drop U_d , maximum	4 V
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.1 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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Pin assignment

PIN 1	A1 Supply voltage UB
PIN 2	X1 Safety input 1
PIN 3	A2 GND
PIN 4	Y1 Safety output 1
PIN 5	OUT Diagnostic output
PIN 6	X2 Safety input 2
PIN 7	Y2 Safety output 2
PIN 8	IN Solenoid control
PIN 9	white LED
PIN 10	Key button
PIN 11	Key button
PIN 12	Not used

Scope of delivery

Included in delivery	Actuators must be ordered separately. Triangular key for AZM 201
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Accessory

AZ/AZM201-B1
AZ/AZM201-B30

Notes

Note (General)

As long as the actuating unit remains inserted in the solenoid interlock, the unlocked safety guard can be relocked. In this case, the safety outputs are re-enabled, so that the safety guard must not be opened.

Ordering code

Product type description:

AZM201(1)-(2)-(3)-T-(4)-(5)

(1)

Z Solenoid interlock monitored

NB, MBN, BN Actuator monitored

(2)

without Standard coding

I1 Individual coding

I2 Individual coding, re-teaching enabled

(3)

SK Screw terminals

CC Cage clamps

ST Connector plug M23, 12-pole

(4)

1P2PW 1 diagnostic output, p-type and >2 safety outputs, p-type > (combined diagnostic signal: guard system closed and interlock locked)

SD2P serial diagnostic output and 2 p-type safety outputs

(5)

without Power to unlock

A Power to lock

Pictures

Photo/Product/Catalogue



ID: kazm2f48

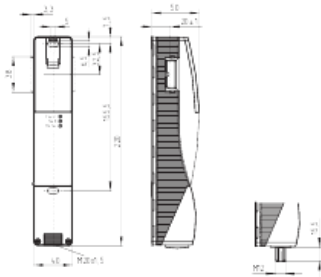
| 335,0 kB | .png | 74.083 x 340.783 mm - 210 x 966

Pixel - 72 dpi

| 735,6 kB | .jpg | 135.819 x 625.122 mm - 385 x 1772

Pixel - 72 dpi

Dimension/Product/Basic



ID: 1azm2g12

| 5,3 kB | .png | 74.083 x 64.911 mm - 210 x 184 Pixel
- 72 dpi

| 146,3 kB | .jpg | 352.778 x 308.681 mm - 1000 x 875
Pixel - 72 dpi

| 21,1 kB | .jpg | 169.686 x 148.519 mm - 481 x 421
Pixel - 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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