



AZM201D-ST2-T-1P2P2P

- Thermoplastic enclosure
- Coding in accordance to ISO 14119 by using RFID-Technology
- 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
- Manual release
- Protection class IP66, IP67
- High holding force 2000
- 2 OSSD safety outputs for guard door monitoring
- 2 OSSD safety outputs for guard locking monitoring
- symmetrical construction form, assembly on 40mm profiles
- Emergency exit / Emergency release suitable for retrofitting

Data

Ordering data

Product type description	AZM201D-ST2-T-1P2P2P
Article number (order number)	103026879
EAN (European Article Number)	4030661555515
eCl@ss number, version 9.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 12.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

Approvals - Standards

Certificates	TÜV cULus EAC FCC IC
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General data

Standards	EN ISO 13849-1 EN IEC 61508 EN IEC 60947-5-3 EN ISO 14119 EN IEC 62061
Coding	Universal coding
Coding level according to EN ISO 14119	Low
Working principle	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	588 g
Time to readiness, maximum	4,000 ms
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

General data - Features

Power to unlock	Yes
Actuator monitored	Yes
Solenoid interlock monitored	Yes
Manual release	Yes
Short circuit detection	Yes
Cross-circuit detection	Yes
Safety functions	Yes
Integral system diagnostics, status	Yes

Number of safety contacts	4
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Safety classification

Standards	EN ISO 13849-1 EN IEC 61508 EN IEC 62061
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Safety classification - Interlocking function

Performance Level, up to	e
Category	4
PFH value	5.70×10^{-10} /h
PFD value	5.00×10^{-5}
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Safety classification - Interlocking function 2

Performance Level, up to	d
Category	3
Safety Integrity Level (SIL), suitable for applications in	2
Mission time	20 Year(s)

Safety classification - Guard locking function

Mission time	20 Year(s)
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Mechanical data

Mechanical life, minimum	1,000,000 Operations
Holding force F_{Zh} in accordance with EN ISO 14119	2,000 N
Holding force F_{max} , maximum	2,600 N

Latching force	30 N
Actuating speed, maximum	0.2 m/s

Mechanical data - Connection technique

Termination	Connector M12, 8-pole
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Mechanical data - Dimensions

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

Ambient conditions

Degree of protection	IP67 IP66
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 vibration to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm
Resistance to shock	30 g / 11 ms
Protection class	III

Ambient conditions - Insulation values

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV

Overvoltage category	III
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Degree of pollution to VDE 0100	3
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Electrical data

Operating voltage, minimum	20.4 VDC
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Operating voltage, maximum	26.4 VDC
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No-load supply current I_0 , maximum	50 mA
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Current consumption with magnet ON, peak	700 mA / 100 ms
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Operating current	1,200 mA
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Switching frequency, approx.	1 Hz
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Electrical data - Magnet control

Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
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Classification ZVEI CB24I, Sink	C0
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Classification ZVEI CB24I, Source	C1 C2 C3
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Electrical data - Safety digital inputs

Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
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Classification ZVEI CB24I, Sink	C1
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Classification ZVEI CB24I, Source	C1 C2 C3
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Electrical data - Safety digital outputs

Rated operating current (safety outputs)	250 mA
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Voltage drop U_d , maximum	4 V
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Leakage current I_r , maximum	0.5 mA
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Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.25 A
Note, Utilisation category DC-13	Gilt für die Ausgänge Y1 und Y2
Classification ZVEI CB24I, Source	C2
Classification ZVEI CB24I, Sink	C1 C2

Electrical data - Diagnostic outputs

Operating current	100 mA
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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Pin assignment

PIN 1	A1 Supply voltage UB
PIN 2	OUT diagnostic output
PIN 3	A2 GND
PIN 4	Y1 Safety output 1
PIN 5	Y3 safety output 3
PIN 6	Y4 safety output Y4
PIN 7	Y2 Safety output 2
PIN 8	IN Solenoid control

Scope of delivery

Scope of delivery	Actuators must be ordered separately. Triangular key for AZM 201
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Accessory

Recommendation (actuator)	AZ/AZM201-B1 AZ/AZM201-B30
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Note

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.
Note (Actuator monitored)	Safety outputs Y1, Y2
Note (Solenoid interlock monitored)	Safety outputs Y3, Y4

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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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