



AZM201D-I2-ST2-T-1P2P2P-A

- 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

EAN (European Article

Number)

4030661559247

Approval - Standards

Certificates TÜV

cULus EAC FCC IC

General data

Standards

EN ISO 13849-1 EN ISO 14119 IEC 60947-5-3 IEC 61508 IEC 62061

general information

Individual coding, multiple teaching

Coding level according to ISO

14119

High

Active principle

RFID

Enclosure material

Glass-fibre, reinforced thermoplastic

Gross weight

495 g

Time to readiness, maximum

4,000 ms

Duration of risk, maximum

200 ms

Response time safety outputs in case of switchoff by actuator, maximum 100 ms

Response time safety outputs in case of switchoff by safety inputs,

maximum

0.5 ms

General data - Features

Power to lock Yes

Actuator monitored Yes

Guard locking monitored Yes

Manual release Yes

Short circuit detection Yes

Short-circuit recognition Yes

Safety functions Yes

Integral System Diagnostics,

status

Yes

Number of safety contacts

4

Safety appraisal

Standards EN ISO 13849-1

IEC 61508

Safety appraisal - Interlocking

Performance level, up to е

Control category

4

PFH-value

 $5.70 \times 10^{-10} / h$

PFD value

 5.00×10^{-5}

Safety Integrity Level (SIL),

suitable for applications in

Mission Time

20 Year(s)

2

Safety appraisal - Interlocking 2

Performance Level, up to d

Control category 3

Safety Integrity Level (SIL),

suitable for applications in

Mission time 20 Year(s)

Safety appraisal - Guard locking

Mission Time 20 Year(s)

Mechanical data

Mechanical life, minimum 1,000,000 Operations

Clamping force in accordance

2,000 N

with ISO14119 F_{zh}

Clamping force, maximum F 2,600 N

max

Latching force 30 N

Mechanical data - Connection technique

Terminal Connector Connector M12, 8-pole

Mechanical data - Dimensions

50 mm Length of sensor

Width of sensor 40 mm

Height of sensor 220 mm

Ambient conditions

IP66 to EN 60529 Degree of protection

IP67 to EN 60529

Ambient temperature, -25 °C

minimum

Ambient temperature,

maximum

+60 °C

Storage and transport -25 °C

temperature, minimum

Storage and transport temperature, maximum

+85 °C

Relative humidity, minimum 30 %

95 % Relative humidity, maximum

Note (Relative humidity) non-condensing

Resistance to vibrations to

EN 60068-2-6

10 ... 150 Hz, amplitude 0.35 mm

Restistance to shock 30 g / 11 ms

Protection rating Ш

Ambient conditions - Insulation value

Rated insulation voltage U_i 32 VDC

Rated impulse withstand

voltage U_{imp}

0.8 kV

Overvoltage category

Degree of pollution to VDE

0100

3

Ш

Electrical data

Operating voltage, minimum 20.4 VDC

Operating voltage, maximum 26.4 VDC

No-load supply current I₀ 50 mA

Current consumption with

solenoid ON, peak

700 mA / 100 ms

Operating current 1,200 mA

Switching frequency, approx. 1 Hz

Electrical data - Solenoid control

Switching thresholds -3 V ... 5 V (Low)

15 V ... 30 V (High)

Classification ZVEI CB24I, Sink C0

Classification ZVEI CB24I, C1

Source C2

C3

Electrical data - Fail-safe digital inputs

Switching thresholds $-3 \text{ V} \dots 5 \text{ V} \text{ (Low)}$

15 V ... 30 V (High)

Classification ZVEI CB24I, Sink C1

Classification ZVEI CB24I, C1

Source C2

С3

Electrical data - Fail-safe digital outputs

Rated operating current

(safety outputs)

250 mA

Voltage drop U_d, maximum 4 V

Current leakage I_r 0.5 mA

Voltage, Utilisation category

DC13

24 VDC

Current, Utilisation category

DC13

0.25 A

Note, Utilisation category

DC13

Gilt für die Ausgänge Y1 und Y2

Classification ZVEI CB24I,

Source

C2

Classification ZVEI CB24I, Sink C1

C2

Electrical data - Diagnostic output

Operating current 100 mA

Voltage drop U_d, maximum 4 V

Voltage, Utilisation category

DC13

24 VDC

Current, Utilisation category

DC13

0.05 A

Status indication

Note (LED switching conditions display)

Operating condition: LED green Error / functional defect: LED red Supply voltage UB: LED green

Pin assignment

PIN 1 A1 Supply voltage UB

PIN 2 ELEC_DATA_CONNECTOR_1_PIN_ASSIGNMENT_2OUT

PIN 3	A2 GND
PIN 4	Y1 Safety output 1
PIN 5	ELEC_DATA_CONNECTOR_1_PIN_ASSIGNMENT_5Y3
PIN 6	ELEC_DATA_CONNECTOR_1_PIN_ASSIGNMENT_6Y4
PIN 7	Y2 Safety output 2
PIN 8	IN Solenoid control

Scope of delivery

Included in delivery Actuators must be ordered separately.

Triangular key for AZM 201

Accessory

Recommendation (actuator) 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.

Note (Actuator monitored) Safety outputs Y1, Y2

Note (Guard locking

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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