



AZM201Z-I2-ST2-T-1P2PW

- Repeated individual coding with RFID technology
- Power to unlock
- Guard locking monitored
- Thermoplastic enclosure
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring
- 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
- symmetrical construction form, assembly on 40mm profiles
- OSSD safety outputs
- Emergency exit / Emergency release suitable for retrofitting

Data

Ordering data

EAN (European Article Number) 4030661493299

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

eCl@ss number, Version 11.0 27-27-26-03

Approval - Standards

Certificates TÜV

cULus EAC FCC

IC

General data

Standards IEC 60947-5-1

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

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 588 g

Time to readiness, maximum 4,000 ms

Duration of risk, maximum 200 ms

Response time safety outputs in case of switch-off by actuator, maximum

100 ms

Response time safety outputs in case

of switch-off by safety inputs,

maximum

0.5 ms

General data - Features

Power to unlock Yes

Guard locking monitored Yes

Manual release Yes

Short circuit detection Yes

Short-circuit recognition Yes

Series-wiring Yes

Safety functions Yes

Integral System Diagnostics, status Yes

Number of safety contacts 2

Safety appraisal

Standards IEC 62061

IEC 61508

3

EN ISO 13849-1

Safety appraisal - Interlocking

Performance level, up to e

Control category 4

PFH-value $1.90 \times 10^{-9} / h$

PFD value 1.60×10^{-4}

Safety Integrity Level (SIL), suitable for

applications in

Mission Time 20 Year(s)

Safety appraisal - Guard locking

Performance level, up to d

Control category 2

PFH-value $1.00 \times 10^{-8} / h$

PFD value 8.90×10^{-4}

Safety Integrity Level (SIL), suitable for

applications in

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

2

Clamping force, maximum F_{max} 2,600 N

Latching force 30 N

Mechanical data - Connection technique

Terminal Connector Connector M12, 8-pole

Mechanical data - Dimensions

Length of sensor 50 mm

Width of sensor 40 mm

Height of sensor 220 mm

Ambient conditions

Degree of protection IP66 to EN 60529

IP67 to EN 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

Restistance to shock 30 g / 11 ms

Protection rating III

Ambient conditions - Insulation value

Rated insulation voltage U_i 32 VDC

Rated impulse withstand voltage U_{imp} 0.8 kV

Overvoltage category III

Degree of pollution to VDE 0100 3

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, 200

average

200 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, Source C1

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, Source 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 I_r 0.5 mA

Voltage, Utilisation category DC13 24 VDC

Current, Utilisation category DC13 0.25 A

Classification ZVEI CB24I, Source C2

Classification ZVEI CB24I, Sink C1

C2

Electrical data - Diagnostic output

Operating current 50 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 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

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.

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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.

Generated on: 11/9/2021, 9:21 AM