



AZM201B-SK-T-1P2PW-DU

- Power to unlock
- Actuator 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

| | |
|-------------------------------|-----------------------|
| Product type description | AZM201B-SK-T-1P2PW-DU |
| Article number (order number) | 103044809 |
| EAN (European Article Number) | 4030661563817 |
| eCl@ss number, version 12.0 | 27-27-26-03 |
| eCl@ss number, version 11.0 | 27-27-26-03 |
| eCl@ss number, version 9.0 | 27-27-26-03 |
| ETIM number, version 7.0 | EC002593 |
| ETIM number, version 6.0 | EC002593 |

Approvals - Standards

| | |
|--------------|----------------------------------|
| Certificates | TÜV cULus EAC FCC IC |
|--------------|----------------------------------|

General data

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| Standards | EN IEC 62061 EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1 EN IEC 60947-5-3 EN IEC 61508 |
| Coding | Universal coding |
| Coding level according to EN ISO 14119 | Low |
| Working principle | RFID |
| Enclosure material | Glass-fibre, reinforced thermoplastic |
| Gross weight | 586 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 |
| Manual release | Yes |
| 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 62061
EN IEC 61508

Safety classification - Interlocking function

Performance Level, up to e
Category 4
PFH value 1.90×10^{-9} /h
PFD value 1.60×10^{-4}
Safety Integrity Level (SIL),
suitable for applications in 3
Mission time 20 Year(s)

Safety classification - Guard locking function

Mission time 20 Year(s)

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 Screw terminals
Screw terminals M20 x 1.5
Cable section, minimum 0.25 mm²

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|-----------------------------|---|
| Cable section, maximum | 1.5 mm ² |
| Note (Cable section) | All indications including the conductor ferrules. |
| Wire cross-section, minimum | 23 AWG |
| Wire cross-section, maximum | 15 AWG |

Mechanical data - Dimensions

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

Ambient conditions

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|--|----------------------------------|
| 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

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|---|--------|
| Rated insulation voltage U_i | 32 VDC |
| Rated impulse withstand voltage U_{imp} | 0.8 kV |
| Overvoltage category | III |

Electrical data

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

Electrical data - Magnet control

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|-----------------------------------|--|
| 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 - Safety digital inputs

| | |
|-----------------------------------|--|
| Switching thresholds | -3 V ... 5 V (Low) 15 V ... 30 V (High) |
| Classification ZVEI CB24I, Sink | C1 |
| Classification ZVEI CB24I, Source | C1 C2 C3 |

Electrical data - Safety digital outputs

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|--|--------|
| Rated operating current (safety outputs) | 250 mA |
| Voltage drop U_d , maximum | 2 V |

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|-------------------------------------|----------|
| Leakage current I_p , maximum | 0.5 mA |
| Voltage, Utilisation category DC-13 | 24 VDC |
| Current, Utilisation category DC-13 | 0.25 A |
| Classification ZVEI CB24I, Source | C2 |
| Classification ZVEI CB24I, Sink | C1 C2 |

Electrical data - Diagnostic outputs

| | |
|-------------------------------------|--------|
| Operating current | 50 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

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|---|--|
| Note (LED switching conditions display) | Operating condition: LED green Error / functional defect: LED red Supply voltage UB: LED green |
|---|--|

Scope of delivery

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

Accessory

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

Note

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| 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. |
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Ordering code

Product type description:
AZM201(1)-(2)-(3)-T-(4)-(5)

(1)

| | |
|----------|------------------------------|
| Z | Solenoid interlock monitored |
| B | Actuator monitored |

(2)

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

(3)

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

(4)

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|--------------|--|
| 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)

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|----------------|-----------------|
| without | Power to unlock |
| A | Power to lock |

Pictures

Product picture (catalogue individual photo)

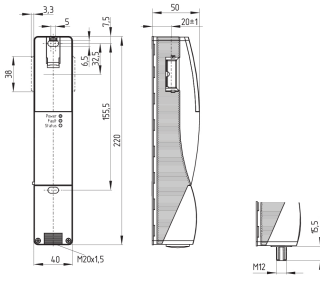


ID: kazm2f48

| 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

Dimensional drawing basic component



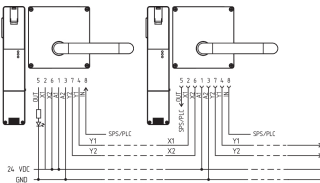
ID: 1azm2g12

| 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

Wiring example



ID: kazm2l26

| 50.3 kB | .cdr |

| 105.6 kB | .jpg | 352.778 x 192.969 mm - 1000 x 547 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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