

Datasheet - AZM300Z-I2-ST-AS-P-T

AS interface safety at work / Safety switchgear / Solenoid interlock / AZM300-AS



- Solenoid interlock with integrated AS-i Safety Interface
- Universal repeatedly teachable or individual coding because of the RFID technology
- I-variants with coding level HIGH to ISO 14119
- High protection class IP69K
- 2 integrated snap-in stages
- Thermoplastic enclosure
- Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119
- Suitable for hinged and sliding guards
- 3 different directions of actuation
- Guard locking monitored
- Power to unlock
- Emergency exit
- Solenoid supply 24 (Aux)

(Minor differences between the printed image and the original product may exist!)

Ordering details

| | |
|--------------------------|----------------------|
| Product type description | AZM300Z-I2-ST-AS-P-T |
| Article number | 103009483 |
| EAN Code | |
| eCl@ss | 27-27-26-03 |

Approval


Approval



Classification

| | |
|------------------|---------------------------|
| Standards | EN ISO 13849-1, IEC 61508 |
| PL | e |
| Control category | 4 |
| PFH | $4.0 \times 10^{-10} / h$ |
| PFD value | 7.0×10^{-5} |
| SIL | up 3 |
| Mission time | 20 Years |


Global Properties

| | |
|--|--|
| Permanent light | AZM300-AS |
| Standards | EN 60947-5-1, ISO 14119, EN ISO 13849-1, IEC 61508, EN 50295 |
| Compliance with the Directives (Y/N)  | Yes |
| Suitable for safety functions (Y/N) | Yes |
| Number of actuating directions | 3 |
| Active principle | RFID |
| Coding levels according to ISO 14119 | High |
| Coding | Individual coding, multiple teaching |
| Duty cycle | Magnet 100 |
| Materials | |
| - Material of the housings | Plastic, glass-fibre reinforced thermoplastic |
| Housing coating | None |
| Weight | 580 |
| Guard locking monitored (Y/N) | Yes |
| Actuator monitored (Y/N) | No |
| Reaction time | ≤ 120 |
| Duration of risk | ≤ 200 |
| Time to readiness | ≤ 5 s |
| Recommended actuator | AZ/AZM300-B1 |

Mechanical data

| | |
|---|---|
| Design of electrical connection | connector plug M12, 4-pole, A-Coding |
| Mechanical life | ≥ 1.000.000 operations |
| notice - Mechanical life (when used as door stop) | ≥ 50.000 operations for guards ≤ 5 kg; actuating speed ≤ 0,5 m/s |
| Switch distance | 2 |
| - Ensured switch distance ON | 1 |
| - Ensured switch distance OFF | 20 |
| restistance to shock | 30 / 11 |
| Resistance to vibration | 10 ... 150 HZ, Amplitude 0,35 mm |
| Emergency unlocking device (Y/N) | Yes |
| Manual release (Y/N) | No |
| Emergency release (Y/N) | No |
| Latching (Y/N) | Yes |
| Latching force | 25 / 50 |
| Clamping force F | 1150 N |
| fixing screws | 2 x M6 |
| - tightening torque | 1.8 |
| Actuator and interlock misalignment | ≤ 2 |

Ambient conditions

| | |
|---|--|
| Ambient temperature | |
| - Min. environmental temperature | 0 |
| - Max. environmental temperature | +60 |
| Storage and transport temperature | |
| - Min. Storage and transport temperature | -10 |
| - Max. Storage and transport temperature | +90 |
| Protection class | IP66, IP67 to IEC/EN 60529 IP69K to DIN 40050-9 |
| Protection rating | II  |
| Air clearances and creepage distances To IEC/EN 60664-1 | |

| | |
|-----------------------------------|-----|
| - Rated impulse withstand voltage | 0,8 |
| - Rated insulation voltage | 32 |
| - Overvoltage category | III |
| - Degree of pollution | 3 |

Electrical data

| | |
|-----------------|-----|
| Power to unlock | Yes |
| Power to lock | No |

Electrical data - AS interface

| | |
|--|---|
| AS-i Supply voltage | 18.0 ... 31.6 , Protection against polarity reversal |
| AS-i operating current | ≤ 100 |
| AS-i Device insulation | internally short-circuit proof |
| AS-i Specification | Safety Slave |
| - version | V 3.0 |
| - Profile | S-7.B.F.E |
| AS-i Inputs | |
| - Channel 1 | Data bits DI 0/DI 1= dynamic code transmission |
| - Channel 2 | Data bits DI 2/DI 3= dynamic code transmission |
| AS-i Outputs | |
| - DO 0 | Solenoid control |
| - DO 1 | not used |
| - DO 2 | not used |
| - DO 3 | not used |
| AS-i Parameter bits | |
| - P0 | safety guard closed and can be locked |
| - P1 | Solenoid interlock locked |
| - P2 | Auxiliary voltage in |
| - P3 | device error (FID) |
| AS-i input module address | 0 |
| - Default on address 0, programmable via the AS-Interface Master or Hand-held programming device | |
| notice | Set the parameter outputs to "1111" (0xF) FID: periphery error |

Electrical data - Auxiliary voltage (Aux)

| | |
|-------------------|---|
| Supply voltage | 24 (-15 / +10), stabilised PELV |
| Operating current | ≤ 300 |
| Device insulation | ≤ 4 A (if used in accordance with UL 508) |

LED switching conditions display

| | |
|--|---|
| LED switching conditions display (Y/N) | Yes |
| AS-i LED switching conditions display | |
| (1) green/red LED (AS-i duo LED) | Supply voltage / Communication error / slave address = 0 / periphery error detected / Device fault detected / Tamper protection activated |
| (2) yellow LED | Device status (Enabling status) |
| (3) red LED | device error |

ATEX

| | |
|---|------|
| Explosion protection categories for gases | None |
|---|------|

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

| | |
|--------------------|-------|
| - Width of sensor | 87.4 |
| - Height of sensor | 128.5 |
| - Length of sensor | 55 |

Documents

Operating instructions and Declaration of conformity (fr) 1 MB, 24.10.2018

Code: mrl_azm300as_fr

Operating instructions and Declaration of conformity (nl) 1 MB, 10.10.2018

Code: mrl_azm300as_nl

Operating instructions and Declaration of conformity (cn) 1 MB, 22.11.2018

Code: mrl_azm300as_cn

Operating instructions and Declaration of conformity (en) 1 MB, 09.08.2018

Code: mrl_azm300as_en

Operating instructions and Declaration of conformity (it) 1 MB, 12.09.2017

Code: mrl_azm300as_it

Operating instructions and Declaration of conformity (pt) 1 MB, 23.08.2018

Code: mrl_azm300as_pt

Operating instructions and Declaration of conformity (es) 1 MB, 23.08.2018

Code: mrl_azm300as_es

Operating instructions and Declaration of conformity (de) 1 MB, 09.08.2018

Code: mrl_azm300as_de

Operating instructions and Declaration of conformity (pl) 1 MB, 26.11.2018

Code: mrl_azm300as_pl

TÜV certification (de, en) 761 kB, 17.09.2018

Code: z_azmp05

Images

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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