

Datasheet - AZM 200 BZ ST-T-AS P

AS interface safety at work / Safety switchgear / Solenoid interlock / AZM 200 AS



Preferred typ



- Solenoid interlock
- Thermoplastic enclosure
- High holding force 2000
- 40 mm x 244 mm x 50 mm
- Interlock with protection against incorrect locking.
- Double-insulated
- Long life
- Integrated AS-Interface
- Solenoid supply 24 VDC (Aux)
- Combined monitoring of actuator and solenoid interlock

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

Ordering details

| | |
|--------------------------|----------------------|
| Product type description | AZM 200 BZ ST-T-AS P |
| Article number | 101194499 |
| EAN Code | 4030661365046 |
| eCl@ss | 27-27-26-03 |

Approval


Approval



Classification

| | |
|------------------|--|
| Standards | EN ISO 13849-1, IEC 61508, IEC 60947-5-3 |
| PL | up e |
| Control category | 4 |
| PFH | 4 x 10 ⁻⁹ / h |
| SIL | up 3 |
| Mission time | 20 Years |
| Classification | PDF-M |


Global Properties

| | |
|--|---|
| Permanent light | AZM 200 AS |
| Standards | EN 50295, EN 60947-5-1, IEC 61508, EN ISO 13849-1, IEC 60947-5-3 |
| Compliance with the Directives (Y/N)  | Yes |
| Number of actuating directions | 1 |
| Active principle | electromechanical |
| Duty cycle ED | Magnet 100 % |
| Materials | |
| - Material of the housings | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Housing coating | None |
| Weight | 518 |
| Guard locking monitored (Y/N) | Yes |
| Actuator monitored (Y/N) | Yes |
| Response time | < 60 |
| Duration of risk | < 120 |
| Time to readiness | < 4000 |

Mechanical data

| | |
|------------------------------------|-------------------------------------|
| Design of electrical connection | connector plug M12, 4-pole |
| Mechanical life | > 1.000.000 operations |
| resistance to shock | 30 g / 11 ms |
| Resistance to vibration | 10 HZ ... 150 HZ, Amplitude 0,35 mm |
| Latching force | 30 |
| Clamping force F | 2000 N |
| Tightening torque for cover screws | 0,7 ... 1 |
| Max. Actuating speed | ≤ 2 |

Ambient conditions

| | |
|---|--|
| Ambient temperature | |
| - Min. environmental temperature | -25 |
| - Max. environmental temperature | +60 |
| Storage and transport temperature | |
| - Min. Storage and transport temperature | -25 |
| - Max. Storage and transport temperature | +85 |
| Relative humidity | 30 ... 95 |
| - non-condensing | |
| Protection class | IP67 to IEC/EN 60529 |
| Protection rating | II  |
| Air clearances and creepage distances To IEC/EN 60664-1 | |
| - Rated impulse withstand voltage U_{imp} | 0,8 kV |
| - Rated insulation voltage U_i | 32 VDC |
| - 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 | 26.5 ... 31.6 VDC, Protection against polarity reversal |
| AS-i operating current | ≤ 100 |
| AS-i Device insulation | internally short-circuit proof |
| AS-i Specification | |
| - version | V 2.1 |
| - Profile | S-7.B.F.E |
| - IO-Code | 0x7 |
| - ID-Code | 0xB |
| - ID-Code1 | 0xF |
| - ID-Code2 | 0xE |
| 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 and actuator detected |
| - P1 | Solenoid interlock locked |
| - P2 | magnet voltage in tolerance range |
| - P3 | Error |
| AS-i input module address | 0 |
| - Default on address 0, programmable via the AS-Interface Master or Hand-held programming device | |

Electrical data - Auxiliary voltage (Aux)

| | |
|----------------------|---|
| Supply voltage U_B | 24 VDC (-15 % / +10 %) stabilised PELV |
| Operating current | ≤ 500 |
| 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 |
| (2) red LED | device error |
| (3) yellow LED | Device status |

ATEX

| | |
|---|------|
| Explosion protection categories for gases | None |
| Explosion protected category for dusts | None |

Miscellaneous data

| | |
|--------------|--|
| Applications |  sliding safety guard,  removable guard,  hinged safety guard |
|--------------|--|

Dimensions

Dimensions of the sensor

| | |
|--------------------|-----|
| - Width of sensor | 40 |
| - Height of sensor | 244 |
| - Length of sensor | 50 |

Pin assignment

| | |
|---|-----------|
| 1 | AS-i + |
| 2 | Aux - (P) |
| 3 | AS-i - |
| 4 | Aux + (P) |

notice

Interlocks with power to lock principle may only be used in special cases after a thorough evaluation of the accident risk, since the guarding device can immediately be opened on failure of the electrical power supply or when the main switch is opened.

Included in delivery

Actuators must be ordered separately.

Ordering code

AZM 200 (1) ST-T-AS (2)P

(1)

without

B Guard locking monitored

BZ Actuator monitored

(2)

without

A Power to unlock

Power to lock

Documents

Operating instructions and Declaration of conformity (es) 364 kB, 19.07.2016

Code: mrl_azm200as_es

Operating instructions and Declaration of conformity (pl) 373 kB, 28.10.2016

Code: mrl_azm200as_pl

Operating instructions and Declaration of conformity (da) 280 kB, 13.10.2015

Code: mrl_azm200as_da

Operating instructions and Declaration of conformity (nl) 399 kB, 05.07.2016

Code: mrl_azm200as_nl

Operating instructions and Declaration of conformity (fr) 359 kB, 20.07.2016

Code: mrl_azm200as_fr

Operating instructions and Declaration of conformity (de) 549 kB, 20.06.2016

Code: mrl_azm200as_de

Operating instructions and Declaration of conformity (jp) 394 kB, 22.02.2012

Code: mrl_azm200as_jp

Operating instructions and Declaration of conformity (cn) 474 kB, 26.07.2017

Code: mrl_azm200as_cn

Operating instructions and Declaration of conformity (en) 400 kB, 20.06.2016

Code: mrl_azm200as_en

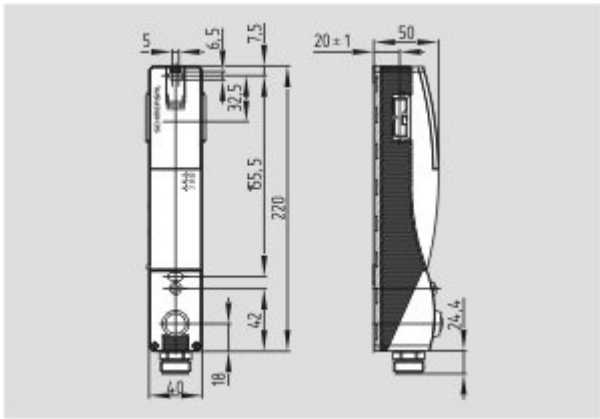
Operating instructions and Declaration of conformity (pt) 344 kB, 03.02.2017

Code: mrl_azm200as_pt

Operating instructions and Declaration of conformity (it) 407 kB, 05.07.2016

Code: mrl_azm200as_it

Images



Dimensional drawing (miscellaneous)

System components

Actuator



101183470 - AZ/AZM 200-B1-RTP0

- Actuators with return spring
 - Actuator for sliding guards
 - Tolerates up to max. 5 mm overtravel
-



101183469 - AZ/AZM 200-B1-RT

- Actuators with return spring
 - Actuator for sliding guards
 - Tolerates up to max. 5 mm overtravel
-

101183466 - AZ/AZM 200-B1-LTP0

- Actuators with return spring
- Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel



101183465 - AZ/AZM 200-B1-LT

- Actuators with return spring
- Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel

101192104 - AZ/AZM 200-B30-RTAG2P25



- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101191659 - AZ/AZM 200-B30-RTAG2P20



- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101181143 - AZ/AZM 200-B30-RTAG2P1

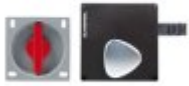


- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101181139 - AZ/AZM 200-B30-RTAG2



- Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability



101192106 - AZ/AZM 200-B30-LTAG2P25

- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability



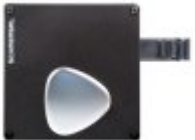
101189020 - AZ/AZM 200-B30-LTAG2P20

- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability



101181141 - AZ/AZM 200-B30-LTAG2P1

- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability



101181137 - AZ/AZM 200-B30-LTAG2

- Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability



101192103 - AZ/AZM 200-B30-RTAG1P25

- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101192102 - AZ/AZM 200-B30-LTAG1P25

- One-hand emergency exit, even in de-energised condition
- Actuator for hinged guards



- With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101186144 - AZ/AZM 200-B30-RTAG1P20



- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101178738 - AZ/AZM 200-B30-RTAG1P1



- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101178680 - AZ/AZM 200-B30-RTAG1



- Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101186150 - AZ/AZM 200-B30-LTAG1P20



- One-hand emergency exit, even in de-energised condition
 - Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

101178668 - AZ/AZM 200-B30-LTAG1P1

- One-hand emergency exit, even in de-energised condition
- Actuator for hinged guards



- With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability



101178681 - AZ/AZM 200-B30-LTAG1

- Actuator for hinged guards
 - With door detection sensor T
 - Easy and intuitive operation
 - No risk of injury from protruding actuator
 - No supplementary door handles required
 - Does not protrude into the door opening
 - Various handles available
- Greater mechanical stability

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

Generiert am 13.02.2019 - 12:45:02h Kasbase 3.3.0.F.64I