# Datasheet - AZM 200 B ST-T-AS P



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





- 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)
- Actuator monitored

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

# **Ordering details**

Product type description AZM 200 B ST-T-AS P
Article number 101194495
EAN Code 4030661359144

eCl@ss 27-27-26-03

## **Approval**

Approval



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#### Classification

PL

Standards EN ISO 13849-1, IEC 61508, IEC 60947-5-3

Control category 4

PFH 4 x 10-9 / h

SIL up 3
Mission time 20 Years

Mission time 20 Year 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

Active principle electromechanical Duty cycle ED Magnet 100 %

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

 Housing coating
 None

 Weight
 522

 Guard locking monitored (Y/N)
 No

 Actuator monitored (Y/N)
 Yes

 Response time
 < 60</td>

 Duration of risk
 < 120</td>

 Time to readiness
 < 4000</td>

#### **Mechanical data**

Design of electrical connection connector plug M12, 4-pole Mechanical life > 1.000.000 operations

restistance to shock 30 g / 11 ms

Resistance to vibration 10 HZ ... 150 HZ, Amplitude 0,35 mm

Latching force30Clamping force F2000 NTightening torque for cover srews0,7 ... 1Max. Actuating speed≤ 2

### **Ambient conditions**

Ambient temperature

Min. environmental temperature
 Max. environmental temperature

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 Relative humidity
 30 ... 95

- non-condensing

Protection class IP67 to IEC/EN 60529

Protection rating

Air clearances and creepage distances To IEC/EN 60664-1

Rated impulse withstand voltage U<sub>imp</sub> 0,8 kV
 Rated insulation voltage U<sub>i</sub> 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- ProfileV 2.1- 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 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 UB 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**

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	ume	neinne	of the	sensor

- Width of sensor- Height of sensor244

Length of sensor

## 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.

50

## Included in delivery

Actuators must be ordered separately.

## **Ordering code**

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

(1)

withoutGuard locking monitoredBActuator monitored

ΒZ

(2)

without Power to unlock

A 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

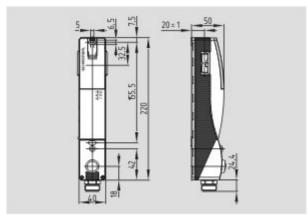
Operating instructions and Declaration of conformity (pt) 344 kB, 03.02.2017

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

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 12:44:55h Kasbase 3.3.0.F.64l