Datasheet - AZM 170 B ST-AS P



AS interface safety at work / Safety switchgear / Solenoid interlock / AZM 170 AS









- · Solenoid interlock
- Integrated AS-Interface
- Thermoplastic enclosure
- 90 mm x 84 mm x 30 mm
- Double-insulated
- · High holding force
- Actuator monitored

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

Ordering details

AZM 170 B ST-AS P Product type description Article number 101210928 **EAN Code** 4030661390420 27-27-26-03 eCl@ss

Approval

Approval



Classification

PL

Standards EN ISO 13849-1, IEC 61508

Control category

PFH 1.16 x 10-6/h

- notice up to max. 100.000 switching cycles/year

SIL up 1 Mission time 20 Years

If a fault exclusion for hazardous damage of the 1-channel mechanics is authorized and an adequate protection against tampering is ensured,

up c 1

suitable for use up to:

Standards EN ISO 13849-1, IEC 61508

PL up d
Control category 3

PFH value 1.01 x 10-7 / h

- notice up to max. 100.000 switching cycles/year

SIL up 2
Mission time 20 Years

Global Properties

Permanent light AZM 170 AS

Standards EN 50295, EN 60947-5-1, IEC 61508, EN ISO 13849-1

Compliance with the Directives (Y/N) **C** €

Number of actuating directions

2

Active principle electromechanical

Duty cycle ED Magnet 100 %

Materials

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

Housing coating

Weight

310

Guard locking monitored (Y/N)

Actuator monitored (Y/N)

Response time

None

Yes

< 100

Mechanical data

Design of electrical connection connector plug M12, 4-pole

Mechanical life > 1.000.000 operations

Manual release (Y/N) No

Latching force 5
Clamping force F 1000 N
Max. Actuating speed 2

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +55

Storage and transport temperature

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

- non-condensing

- non-icing

Protection class IP67 to IEC/EN 60529

Protection rating

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 ≤ 50

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

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

0xE

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 not used

- P3 not used
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 LED Supply voltage

(2) red LED Communication error / slave address = 0

(3) yellow LED Enabling status

ATEX

Explosion protection categories for gases

None
Explosion protected category for dusts

None

Dimensions

Dim	ensions	of the	cancor
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- Width of sensor	90
- Height of sensor	75.5
- Length of sensor	30

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 170 (1) (2)-AS(3)(4)(5)(6)

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В		Actuator monitored

BZ Combined monitoring of actuator and solenoid interlock

(2)

ST male connector M12

(3)

without Latching force 5 N

R Latching force 30 N

(4)

without Power to unlock

A Power to lock

(5)

P Solenoid supply 24 VDC (Aux)

(6)

2197 Manual release for Power to unlock

Documents

Operating instructions and Declaration of conformity (pt) 340 kB, 15.01.2018

Code: mrl_azm170as_pt

Operating instructions and Declaration of conformity (pl) 355 kB, 28.03.2018

Code: mrl_azm170as_pl

Operating instructions and Declaration of conformity (nl) 319 kB, 13.08.2018

Code: mrl_azm170as_nl

Operating instructions and Declaration of conformity (en) 341 kB, 22.11.2017

Code: mrl_azm170as_en

Operating instructions and Declaration of conformity (jp) 464 kB, 14.04.2011

Code: mrl_azm170as_jp

Operating instructions and Declaration of conformity (de) 320 kB, 22.11.2017

Code: mrl_azm170as_de

Operating instructions and Declaration of conformity (da) 242 kB, 13.10.2015

Code: mrl_azm170as_da

Operating instructions and Declaration of conformity (fr) 340 kB, 15.01.2018

Code: mrl_azm170as_fr

Operating instructions and Declaration of conformity (it) 340 kB, 15.01.2018

Code: mrl_azm170as_it

Operating instructions and Declaration of conformity (es) 343 kB, 15.01.2018

Code: mrl_azm170as_es

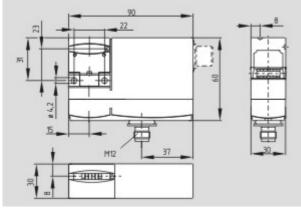
TÜV certification (de, en) 870 kB, 22.02.2010

Code: z_azmp03

Images



Product photo



Dimensional drawing (basic component)

Actuator



101122893 - AZ 17/170-B1

· Particularly suitable for sliding doors



101137406 - AZ 17/170-B1-2245

- · Particularly suitable for sliding doors
- · Damps vibration on guard device



101122895 - AZ 17/170-B5

• Particularly suitable for sliding doors



101123391 - AZM 170-B6

- Particularly suitable for hinged guards
- For very smal actuating radii
- The direction of actuation can be selected by applicable insertion of the insert



101139788 - AZ 17/170-B11

· Particularly suitable for sliding doors



101139789 - AZ 17/170-B15

• Particularly suitable for sliding doors

Accessories



101208493 - AZM 170-B CENTERING GUIDE

• for AZ 17 and AZM 170





101149211 - Mounting set MS AZM 170 R/P



101100887 - TRIANGULAR KEY TK-M5

- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

Mounting accessories





101147463 - TAMPERPROOF SCREWS M 4 x 8

- To mount the actuator
- Higher protection against tampering with interlock
- Protects against unauthorised removal of actuator
- · Various lengths available

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 - 12:44:36h Kasbase 3.3.0.F.64l