Datasheet - AZM300B-I2-ST-1P2P-A

Solenoid interlock / AZM300





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

- · Suitable for mounting to profile systems
- Thermoplastic enclosure
- RFID-technology for needs-based protection against tampering
- 3 different directions of actuation
- · Compact design
- 3 LEDs to show operating conditions
- Suitable for hinged and sliding guards
- · Series-wiring
- Manual release
- · Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119
- · Connector M12, 8-pole
- Power to lock
- Actuator monitored
- · Diagnostic output

Ordering details

Product type description AZM300B-I2-ST-1P2P-A

Article number 103001427

EAN Code

eCl@ss 27-27-26-03

Approval

Approval



4

3

Classification

Control category

Standards EN ISO 13849-1, IEC 61508

PL e

SIL

L

Mission time 20 Years
PFH value 5.2 x 10-10 /h

Global Properties

Permanent light AZM300

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

Compliance with the Directives (Y/N)

Suitable for safety functions (Y/N)

Series-wiring

Length of the sensor chain

Active principle

Yes

Yes

RFID

Coding Individual coding, multiple teaching

Coding levels according to ISO 14119 High

Duty cycle 100

Materials

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

Housing coating None

Weight

Guard locking monitored (Y/N)

Actuator monitored (Y/N)

Yes

Idle assignable pushbutton and LED (Y/N)

Reaction time

< 120

Duration of risk

< 200

Time to readiness

5 s

Recommended actuator AZ/AZM300-B1

Mechanical data

Design of electrical connection Connector M12, 8-pole, A-coded

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 distance2Ensured switch distance ON1Ensured switch distance OFF20restistance to shock30 / 11

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

Emergency unlocking device (Y/N) No Manual release (Y/N) Yes Emergency release (Y/N) No Latching (Y/N) Yes Latching force 25 / 50 1150 N Clamping force F Actuator and interlock misalignment ≤ 2 fixing screws 2 x M6

Ambient conditions

Ambient temperature

- Min. environmental temperature- Max. environmental temperature+60

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 +90

Protection class IP66, IP67, IP69 to IEC 60529

Protection rating II

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

Rated impulse withstand voltage
 Overvoltage category
 Degree of pollution
 3

Electrical data

Number of auxiliary contacts0Number of safety contacts2Cross circuit/short circuit recognition possible (Y/N)YesPower to unlockNoPower to lockYes

Supply voltage (stabilised PELV) 24 -15 / +10

Switch frequency 0,5

Operating current 100 (without load)

Rated insulation voltage 32 VDC

Operating current I_e 1 A

Utilisation category DC-13

Required rated short-circuit current 100 A

Device insulation 2 A

notice Cable length and cable section alter the voltage drop depending on the

output current

Electrical data - Safety inputs

Safety inputs $\begin{array}{c} \text{X1 and X2} \\ \text{Switching thresholds} \\ \text{Switc$

Electrical data - Safety outputs

Safety outputs Y1 and Y2

Design of control output short-circuit proof, p-type

Rated operating voltage 0 ... 4 under Supply voltage

Residual current≤ 0,5Operating current0,25 AUtilisation categoryDC-12, DC-13Test impulse width< 0,5</td>

Test frequency 1

Electrical data - Diagnostic output

Serial diagnostics (Y/N) No

Design of control output short-circuit proof, p-type

Rated operating voltage Ue 0 V ... 4 V under Supply voltage UB

Operating current 0,05 A
Utilisation category DC-12, DC-13

Wiring capacitance for serial diagnostics

diagnostic signals guard door closed and interlocking device locked

Operating principle of the diagnostic output

The short-circuit proof diagnostic output OUT can be used for central

visualisation or control tasks, e.g. in a PLC.

notice The diagnostic output is not a safety-relevant output!

Electrical data - Solenoid control IN

Switching thresholds -3 ... 5 (Low)
15 ... 30 (High)
Operating current 10 mA / 24 V

LED switching conditions display

LED switching conditions display (Y/N)

Yes

LED switching conditions display

- Supply voltage green LED
- switching condition yellow LED
- Error functional defect red LED

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor

- Height of sensor

- Length of sensor

35

Pin assignment

1 A1 Supply voltage 2 X1 Safety input 1 3 A2 GND 4 Y1 Safety output 1 **OUT** Diagnostic output 5 6 X2 Safety input 2 7 Y2 Safety output 2 8 IN Solenoid control

notice

As lons as the actuating unit remains inserted in the solenoid interlock, the unlocked safety guard can be relocked. The safety outputs then will be enabled again; opening the safety guard therefore is not required.

For doors that are flush with the door frame, the optional mounting plate MP-AZ/AZM300-1 can be used.

For glass and Makrolon doors, the optional mounting kit MS-AZ/AZM300-B1-1 can be used.

Included in delivery

Actuators must be ordered separately.

Ordering code

AZM300(1)(2)-ST(3)-(4)-(5)

(1)

Z Guard locking monitored
B Actuator monitored

(2)

without Included in standard versioncoding

I1 Individual coding

12 Individual coding, multiple teaching

(3)

1P2P 1 Diagnostic output, p-type and 2 Safety outputs, p-type

SD2P serial diagnostic output and 2 Safety outputs, p-type

(4)

without Power to unlock

A Power to lock

(5)

withoutManual releaseTEmergency exitNEmergency release

Documents

Operating instructions and Declaration of conformity (jp) 1 MB, 18.09.2017

Code: mrl_azm300_jp

Operating instructions and Declaration of conformity (it) 1 MB, 11.07.2018

Code: mrl_azm300_it

Operating instructions and Declaration of conformity (sv) 1 MB, 18.09.2017

Code: mrl_azm300_sv

Operating instructions and Declaration of conformity (en) 1 MB, 18.06.2018

Code: mrl_azm300_en

Operating instructions and Declaration of conformity (da) 1 MB, 18.09.2017

Code: mrl_azm300_da

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

Code: mrl_azm300_cn

Operating instructions and Declaration of conformity (es) 1 MB, 01.08.2018

Code: mrl_azm300_es

Operating instructions and Declaration of conformity (de) 1 MB, 18.06.2018

Code: mrl_azm300_de

Operating instructions and Declaration of conformity (fr) 1 MB, 01.08.2018

Code: mrl_azm300_fr

Operating instructions and Declaration of conformity (nl) 1 MB, 01.08.2018

Code: mrl_azm300_nl

Operating instructions and Declaration of conformity (pt) 1 MB, 01.08.2018

Code: mrl_azm300_pt

Operating instructions and Declaration of conformity (pl) 1 MB, 21.11.2018

Code: mrl_azm300_pl

Brochure (it) 877 kB, 29.04.2016

Code: b_azm300p01_it

Brochure (en) 857 kB, 23.07.2015

Code: b_azm300p01_en

Brochure (de) 863 kB, 23.07.2015

Code: b_azm300p01_de

Brochure (es) 2 MB, 03.05.2013

Code: b_azm300p01_es

Brochure (jp) 1 MB, 13.03.2013

Code: b_azm300p01_jp

Brochure (pt) 1 MB, 03.05.2013

Code: b_azm300p01_pt

Brochure (fr) 2 MB, 03.05.2013

Code: b_azm300p01_fr

Brochure (br) 2 MB, 08.03.2013

Code: b_azm300p01_br

Brochure (br) 2 MB, 03.05.2013

Code: b_azm300p01_br

Brochure (nl) 1 MB, 03.05.2013

Code: b_azm300p01_nl

Brochure (cs) 2 MB, 03.05.2013

Code: b_azm300p01_cs

Brochure (pl) 2 MB, 03.05.2013

Code: b_azm300p01_pl

Brochure (de) 6 MB, 15.02.2018

Code: b_css_brosch09_de

Brochure (en) 6 MB, 15.02.2018

Code: b_css_brosch09_en

TÜV certification (de, en) 761 kB, 17.09.2018

Code: z_azmp05

EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

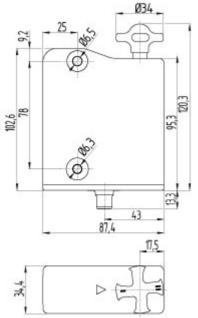
ECOLAB certification (en) 94 kB, 08.04.2013

Code: q_azmp03

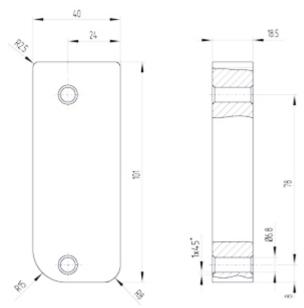
ECOLAB certification (de) 93 kB, 08.04.2013

Code: q_azmp02

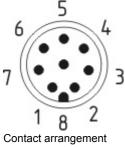
Images

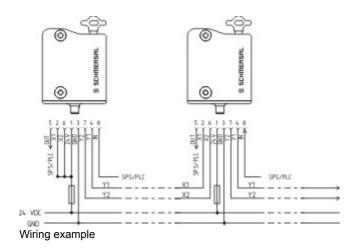


Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)





System components

Actuator



101218025 - AZ/AZM300-B1

• 3 different directions of actuation

Accessories



103002891 - MS-AZ/AZM300-B1-1



103003172 - MP-AZ/AZM300-1

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 - 14:50:57h Kasbase 3.3.0.F.64I