Datasheet - AZM400Z-ST-I2-1P2P

Solenoid interlock / AZM400





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

- · Bistable, motor-driven system
- Clamping force 10.000
- Release possible against lateral forces up to 300 N
- PL e / cat. 4 / SIL 3 for interlocking and guard locking function
- Two-channel input signal of the guard locking function
- Operation on P/P- and P/N-switching outputs
- High tolerance to door misalignment
- · Repeated individual coding with RFID technology
- Trepeated individual coding with Iti Ib technolog
- Coding level "High" according to ISO 14119
 Connector M12, 8-pole
- Guard locking monitored
- 1 Diagnostic output
- manual release

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM400Z-ST-I2-1P2P

103003733

4030661472614

27-27-26-03

Approval

Approval



20 Years

Classification

Mission time

Interlocking function:

Standards ISO 13849-1, IEC 61508

PL up e

Control category up 4

PFH value $1.0 \times 10^{-9} / h$ PFD value 9.0×10^{-5} SIL up 3

Guard locking function:

Standards ISO 13849-1, IEC 61508

PL up e

 PL
 up e

 Control category
 up 4

 PFH value
 1.8 x 10-9/h

 PFD value
 1.6 x 10-4

 PFD value
 1.6 x 10-4

 SIL
 up 3

 Mission time
 20 Years

Global Properties

Permanent light AZM400

Standards IEC 60947-5-1, ISO 14119, ISO 13849-1, IEC 61508

Active principle Magnetic field / RFID

Coding Individual coding, multiple teaching

Coding levels according to ISO 14119 High

Material of the housings light alloy die-casting

Housing coatingNoneWeight730Guard locking monitored (Y/N)YesIdle assignable pushbutton and LED (Y/N)NoReaction time≤ 100Time to readiness≤ 1.5 sRecommended actuatorAZM400-B1

Mechanical data

Design of electrical connection Connector M12, 8-pole

Interlocking principle bistable

Mechanical life ≥ 1.000.000 operations
- which have a lateral force Fquer = 100 100.000 operations

Switch distance

Allowable distance actuator / device incl. angular misalignment
 Minimum distance devices
 30
 restistance to shock
 30 / 11

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

Emergency unlocking device (Y/N) No

Manual release (Y/N) Yes

Electronic manual release available (Y/N) No

Clamping force 10.000

Max. lateral force at bolt return (against locked door) 300

- Notice: does not apply to emergency exit, Bowden cable and manual release

fixing screws 2 x M6 (10.9)

Tightening torque for fixing screws 8

Actuator and interlock misalignment 2

With securing holes for Bowden cable assembly (Y/N) No

Tightening torque of the fixing screws Bowden cable

No information

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
 +85

Protection class IP66, IP67 to IEC/EN 60529

Protection rating III

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

Rated impulse withstand voltageOvervoltage categoryIII

Electrical data

 Number of auxiliary contacts
 0

 Number of safety contacts
 2

 Cross circuit/short circuit recognition possible (Y/N)
 Yes

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

Switch frequency 0,3 Operating current 0,1 A 0,6 A - During the displacement of the bolt Rated insulation voltage 32 VDC Required rated short-circuit current 100 A Device insulation 2 A Auxiliary voltage (uninterruptible power supply) No Min. open / close cycle (Motor) 3 - with continuous operation min. average cycle time 20

Electrical data - Safety outputs

Safety outputs Y1 and Y2

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

Rated operating voltage 24

Residual current $\leq 0,5$ Operating current 0,25 A

Utilisation category DC-12, DC-13

Test impulse width $\leq 0,4$

Test impulse width ≤ 0 .

Voltage drop ≤ 2 Test frequency 1

Electrical data - Diagnostic output

Serial diagnostics (Y/N) No

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

Number of diagnostic signals1Rated operating voltage24Operating current0,05 AVoltage drop ≤ 2

Utilisation category DC-12, DC-13

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

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

Electrical data - Control inputs

Control inputs to unlock E1 and E2, p-type, E3, n-type

Switching thresholds -3 ... 5 (Low)

15 ... 30 (High)

Operating current per input > 10 ... < 15 / 24

Permissible residual drive current 1.5
Allowable discrepancy time input ≤ 10 Acceptable test impulse on the input signal < 5- with a test impulse distance of ≥ 40

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 None Explosion protected category for dusts None **Dimensions** Dimensions of the sensor - Width of sensor 77.8 166.7 - Height of sensor - Length of sensor 46.7 Pin assignment 1 A1 Supply voltage 2 E1 Control input 1 3 A2 GND 4 Y1 Safety output 1 **OUT** Diagnostic output 5 6 E3 Control input 3 7 Y2 Safety output 2

E2 Control input 2

Included in delivery

Actuators must be ordered separately.

Ordering code

AZM400Z(1)(2)(3)(4)(5)

(1)

8

ST 1 connector plug M12, 8-pole

ST2 2 connector plug M12, 8-pole / 5-pole

(2)

without Included in standard version Coding

I1 Individual coding

12 Individual coding, multiple teaching

(3)

1P2P 1 Diagnostic output and 2 Safety outputs, p-type (only for ST)

2P2P 2 and 2 Safety outputs, p-type (only for ST2)

(4)

withoutManual releaseTEmergency exit

BOW

without (only for ST) (only for ST2)

Ε

Documents

Operating instructions and Declaration of conformity (it) 1 MB, 26.10.2017

Code: mrl_azm400_it

Operating instructions and Declaration of conformity (pl) 1 MB, 18.01.2018

Code: mrl_azm400_pl

Operating instructions and Declaration of conformity (pt) 1 MB, 08.01.2018

Code: mrl_azm400_pt

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

Code: mrl_azm400_cn

Operating instructions and Declaration of conformity (de) 1 MB, 07.09.2017

Code: mrl_azm400_de

Operating instructions and Declaration of conformity (jp) 1 MB, 30.06.2016

Code: mrl_azm400_jp

Operating instructions and Declaration of conformity (en) 1 MB, 07.09.2017

Code: mrl_azm400_en

Operating instructions and Declaration of conformity (fr) 1 MB, 19.09.2017

Code: mrl_azm400_fr

Operating instructions and Declaration of conformity (nl) 1 MB, 27.07.2018

Code: mrl_azm400_nl

Operating instructions and Declaration of conformity (es) 1 MB, 28.09.2017

Code: mrl_azm400_es

Brochure (pl) 705 kB, 01.02.2016

Code: b_azm400p01_pl

Brochure (es) 696 kB, 01.02.2016

Code: b_azm400p01_es

Brochure (fr) 688 kB, 01.02.2016

Code: b_azm400p01_fr

Brochure (de) 702 kB, 02.10.2015 Code: b_azm400p01_de_rev2016

Brochure (pt) 824 kB, 02.02.2016

Code: b_azm400p01_pt

Brochure (en) 708 kB, 05.10.2015 Code: b_azm400p01_en_rev2016

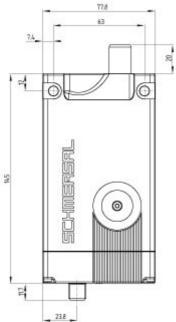
Brochure (it) 691 kB, 01.02.2016

Code: b_azm400p01_it

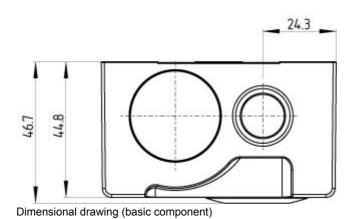
TÜV certification (de, en) 653 kB, 31.07.2017

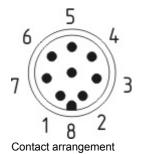
Code: z_azmp06

Images



Dimensional drawing (basic component)





System components



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 - 14:51:48h Kasbase 3.3.0.F.64l