



AZM400Z-ST-I2-1P2P-DU

- Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119
- Connector M12, 8-pole
- Guard locking monitored
- 1 Diagnostic output
- manual release
- 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

Data

Ordering data

Product type description	AZM400Z-ST-I2-1P2P-DU
Article number (order number)	103044780
EAN (European Article Number)	4030661563688
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

Approvals - Standards

Certificates

TÜV
cULus
EAC
FCC
IC

General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-3 EN IEC 61508
Coding	Individual coding, multiple teaching
Coding level according to EN ISO 14119	High
Working principle	Magnetic field RFID
Enclosure material	Light alloy die-casting
Gross weight	764 g
Time to readiness, maximum	1,500 ms
Reaction time, maximum	100 ms

General data - Features

Solenoid interlock monitored	Yes
Manual release	Yes
Short circuit detection	Yes
Cross-circuit detection	Yes
Safety functions	Yes
Integral system diagnostics, status	Yes
Number of diagnostic signals	1
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1 EN IEC 61508
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Safety classification - Interlocking function

Performance Level, up to	e
Category	4
PFH value	1.00×10^{-9} /h
PFD value	9.00×10^{-5}
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Safety classification - Guard locking function

Performance Level, up to	e
Category	4
PFH value	1.80×10^{-9} /h
PFD value	1.60×10^{-4}
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Mechanical data

Interlocking principle	bistable
Mechanical life, minimum	1,000,000 Operations
Note (Mechanical life)	Which have a lateral force $F_{trans} = 100$ N: 100.000 operations
Minimum distance devices	30 mm
Holding force F_{Zh} in accordance with EN ISO 14119	10,000 N
Holding force F_{max} , maximum	13,000 N
Lateral force at bolt return, maximal (against locked door)	300 N
Note (Lateral force at bolt return)	Does not apply to emergency exit, Bowden cable and manual release
Tightening torque of the screw	8 Nm

Mechanical data - Connection technique

Termination	Connector M12, 8-pole
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Mechanical data - Dimensions

Length of sensor	46.7 mm
Width of sensor	77.8 mm
Height of sensor	166.7 mm

Ambient conditions

Degree of protection	IP67 IP66
Ambient temperature, minimum	-20 °C
Ambient temperature, maximum	+55 °C
Storage and transport temperature, minimum	-40 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibration to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm
Resistance to shock	30 g / 11 ms
Protection class	III

Ambient conditions - Insulation values

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to VDE 0100	3

Electrical data

Current consumption	100 mA
Current consumption, maximum	600 mA
Current consumption at 24V, minimum	10 mA
Current consumption at 24V, maximum	15 mA

No-load supply current I_0 , maximum	100 mA
Rated operating voltage	24 VDC
Rated operating voltage	24 VDC
Operating current	50 mA
Required rated short-circuit current to EN 60947-5-1	100 A
Switching frequency, approx.	0.3 Hz
Open / close cycle (motor), minimum	3
Minimal average cycle time (with continuous operation)	20 s

Electrical data - Control inputs

Switching thresholds of the control inputs	-3 V ... 5 V (Low) 15 V ... 30 V (High)
Allowable discrepancy time (input), maximum	10 s
Classification ZVEI CB24I, Sink	C0
Classification ZVEI CB24I, Source	C1 C2 C3

Electrical data - Safety digital inputs

Classification ZVEI CB24I, Sink	C1
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Electrical data - Safety digital outputs

Rated operating current (safety outputs)	250 mA
Design of control elements	short-circuit proof, p-type
Voltage drop U_d , maximum	2 V
Leakage current I_l , maximum	1.5 mA
Voltage, Utilisation category DC-12	24 VDC
Current, Utilisation category DC-12	0.25 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.25 A

Classification ZVEI CB24I, Source	C2
Classification ZVEI CB24I, Sink	C1 C2

Electrical data - Diagnostic outputs

Voltage drop U_d , maximum	2 V
Voltage, Utilisation category DC-12	24 VDC
Current, Utilisation category DC-12	0.05 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.05 A

Status indication

Note (LED switching conditions display)	Operating condition: LED green Error / functional defect: LED red Supply voltage UB: LED green
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Pin assignment

PIN 1	A1 Supply voltage UB
PIN 2	E1 Control input 1
PIN 3	A2 GND
PIN 4	Y1 Safety output 1
PIN 5	OUT Diagnostic output
PIN 6	E3 Control input 3
PIN 7	Y2 Safety output 2
PIN 8	E2 Control input 2

Scope of delivery

Scope of delivery	Actuators must be ordered separately.
Scope of delivery of mounting material	2 x M6 (10.9)

Accessory

Recommendation (actuator)

AZM400-B1

Ordering code

Product type description:

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

(1)

ST	1 Connector plug M12, 8-pin
ST2	2 Connector plug M12, 8-pin / 5-pin

(2)

without	Standard coding
I1	Individual coding
I2	Individual coding, multiple teaching

(3)

1P2P	1 serial diagnostic output and 2 p-type safety outputs (only for ST)
2P2P	2 serial diagnostic output and 2 p-type safety outputs (only for ST2)

(4)

without	Manual release
T	Emergency exit
BOW	With securing holes for Bowden cable assembly

(5)

without	without electronic manual release (Only for ST)
E	with electronic manual release (Only for ST2)

Pictures

Product picture (catalogue individual photo)

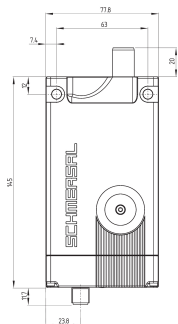


ID: kazm4f41

| 412.3 kB | .jpg | 352.778 x 174.272 mm - 1000 x 494 px - 72 dpi

| 29.7 kB | .png | 74.083 x 36.689 mm - 210 x 104 px - 72 dpi

Dimensional drawing basic component



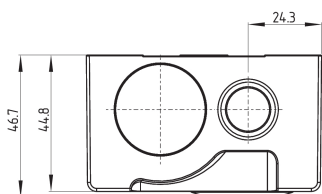
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| 251.9 kB | .ai | 210 x 297 mm - 595 x 841 px - 72 dpi

| 6.0 kB | .png | 74.083 x 137.583 mm - 210 x 390 px - 72 dpi

| 207.5 kB | .jpg | 352.778 x 655.108 mm - 1000 x 1857 px - 72 dpi

Dimensional drawing basic component



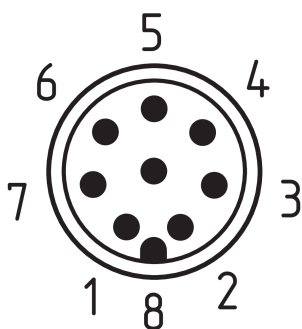
ID: kazm4g22

| 84.3 kB | .ai | 210 x 297 mm - 595 x 841 px - 72 dpi

| 4.1 kB | .png | 74.083 x 44.097 mm - 210 x 125 px - 72 dpi

| 107.4 kB | .jpg | 352.778 x 210.608 mm - 1000 x 597 px - 72 dpi

Contact arrangement



ID: km23-k8b

| 5.3 kB | .png | 73.731 x 79.728 mm - 209 x 226 px - 72 dpi

| 139.8 kB | .jpg | 352.778 x 380.647 mm - 1000 x 1079 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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