

AZM300Z-I1ST-1P2P



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

Data

Ordering data

	AZM300Z-I1ST-1P2P
	103001437
EAN (European Article Number)	4030661425979
eCl@ss number, Version 9.0	27-27-26-03

Approval - Standards

TÜV
cULus
ECOLAB
EAC
FCC
IC

General data

AZM 300

	ISO 13849-1
	IEC 61508
	IEC 60947-5-3
	ISO 14119
	IEC 62061
general information	Individual coding
Coding level according to ISO 14119	High
	RFID
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	550 g
Time to readiness, maximum	5,000 ms
Duration of risk, maximum	200 ms

General data - Features

Power to unlock	Yes
Guard locking monitored	Yes
Latching	Yes
Manual release	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Series-wiring	Yes
Safety functions	Yes
Integral System Diagnostics, status	Yes
Number of safety contacts	2

Safety appraisal

ISO 13849-1
IEC 62061
IEC 61508

Safety appraisal - Interlocking

Performance level, up to	e
Control category	4
PFH-value	$5.20 \times 10^{-10} /h$
PFD value	4.50×10^{-5}
Safety Integrity Level (SIL), applicable for	3
Mission Time	20 Year(s)

Safety appraisal - Guard locking

Performance level, up to	d
Control category	2

PFH-value	$2.00 \times 10^{-9} /h$
PFD value	1.80×10^{-4}
Safety Integrity Level (SIL), applicable for	2
Mission Time	20 Year(s)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Note (Mechanical lifetime)	When using as door hinge: ≥ 50.000 operations (Türmassen ≤ 5 kg and actuating speed ≤ 0.5 m/s)
Switch distance	2 mm
Ensured switch distance "ON" S_{ao}	1 mm
Ensured switch distance "OFF" S_{ar}	20 mm
Clamping force in accordance with ISO14119 F _{zh}	1,150 N
Clamping force, maximum F _{max}	1,500 N
Latching force	50 N
Tightening torque of the fixing screws, minimum	6 Nm
Tightening torque for the fixing screws, maximum	7 Nm

Mechanical data - Connection technique

Terminal Connector	Connector M12, 8-pole, A-coded
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Mechanical data - Dimensions

Height of sensor	100 mm
Length of sensor	35 mm
Width of sensor	85 mm

Ambient conditions

Protection class	IP66 to IEC 60529 IP67 to IEC 60529 IP69 to IEC 60529
Ambient temperature, minimum	+0 °C
Ambient temperature, maximum	+60 °C
Storage and transport temperature, minimum	-10 °C

Storage and transport temperature, maximum	+90 °C
Resistance to vibrations to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm
	30 g / 11 ms
	III

Ambient conditions - Insulation value

Rated impulse withstand voltage	0.8 kV
	III
	3

Electrical data

Operating voltage, minimum	20.4 VDC
Operating voltage, maximum	26.4 VDC
No-load current	100 mA
Required rated short-circuit current to EN 60947-5-1	100 A
Reaction time of actuator, maximum	100 ms
Reaction time of input, maximum	0.5 ms
Switching frequency, maximum	0.5 Hz
Note	Cable length and cable section alter the voltage drop depending on the output current

Electrical data - Solenoid control

	-3 V ... 5 V (Low)
	15 V ... 30 V (High)
Current consumption of the magnet control at 24V	10 mA
	C0
	C1
	C2
	C3

Electrical data - Fail-safe digital inputs

	-3 V ... 5 V (Low)
	15 V ... 30 V (High)
Current consumption of the safety inputs at 24V	5 mA
	C1

C1
C2
C3

Electrical data - Fail-safe digital outputs

Rated operating current (safety outputs)	250 mA
Versions	short-circuit proof, p-type
Voltage drop U_d , maximum	4 V
Current leakage	0.5 mA
Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	0.3 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.3 A

C2
C1
C2

Electrical data - Diagnostic output

Operating current (diagnostic output)	50 mA
Versions	short-circuit proof, p-type
Voltage drop U_d , maximum	4 V
Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	0.1 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.1 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	X1 Safety input 1
PIN 3	A2 GND

PIN 4	Y1 Safety output 1
PIN 5	OUT Diagnostic output
PIN 6	X2 Safety input 2
PIN 7	Y2 Safety output 2
PIN 8	IN Solenoid control

Scope of delivery

Included in delivery Actuators must be ordered separately.

Accessory

AZ/AZM300-B1

Notes

Note (General) 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.
As long as the actuating unit remains inserted in the solenoid interlock, the unlocked safety guard can be relocked. In this case, the safety outputs are re-enabled, so that the safety guard must not be opened.

Ordering code

Product type description:

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

(1)

Z Guard locking monitored

NB, MBN, BN Actuator monitored

(2)

without Standard coding

I1 Individual coding

I2 Individual coding, multiple teaching

(3)

1P2P 1 p-type diagnostic output and 2 p-type safety outputs

SD2P serial diagnostic output and 2 p-type safety outputs

(4)

without Power to unlock

A Power to lock

without Manual release

T Emergency exit

N Emergency release

Photo/Product/Catalogue



| 59,1 kB | .png | 74.083 x 92.428 mm - 210 x 262
Pixel - 72 dpi

| 905,6 kB | .jpg | 352.425 x 440.619 mm - 999 x 1249
Pixel - 72 dpi

The technical drawing shows two views of a rectangular metal plate. The front view (top) has overall dimensions of 87.4 mm by 106.6 mm. It features a central hole with a diameter of 25 mm, a smaller hole with a diameter of 8.3 mm, and a larger circular feature with a diameter of 83.4 mm. The distance from the top edge to the center of the 25 mm hole is 9.2 mm, and the distance from the bottom edge to the center of the 8.3 mm hole is 78 mm. The distance between the centers of the two holes is 25 mm. The distance from the right edge to the center of the 83.4 mm feature is 20.3 mm. The top view (bottom) shows a width of 34.4 mm and a length of 75 mm. It includes a triangular cutout and a rectangular slot.

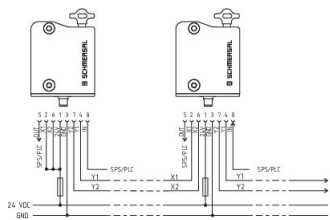
| 5,8 kB | .png | 74.083 x 124.531 mm - 210 x 353
Pixel - 72 dpi

| 10,7 kB | .png | 29.803 x 50.038 mm - 352 x 591
Pixel - 300 dpi

| 190,4 kB | .jpg | 352.778 x 593.372 mm - 1000 x
1682 Pixel - 72 dpi

| 23,7 kB | .cdr |
| 133,3 kB | .jpg | 352.778 x 366.889 mm - 1000 x
1040 Pixel - 72 dpi

Graphic/Product/Wiring



ID: kazm3l01

| 37,8 kB | .cdr |

| 111,9 kB | .jpg | 352.778 x 231.422 mm - 1000 x 656

Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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