



## AZM300Z-ST-AS-P

- Thermoplastic enclosure
- Universal coding with RFID technology
- Suitable for hinged and sliding guards
- 3 different directions of actuation
- Guard locking monitored
- Power to unlock
- Solenoid supply 24 VDC (Aux)
- Hygienic design
- Protection class IP 69
- Solenoid interlock with integrated AS-i Safety Interface
- Universal repeatedly teachable or individual coding because of the RFID technology
- I-variants with coding level HIGH to ISO 14119
- 2 integrated snap-in stages

## Data

### Ordering data

EAN (European Article Number)	4030661475141
eCl@ss number, Version 9.0	27-27-26-03
eCl@ss number, Version 11.0	27-27-26-03

### Approval - Standards

Certificates	TÜV cULus ASi-SaW ECOLAB EAC FCC
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## General data

Standards	IEC 61508 EN 60947-5-1 EN ISO 14119 EN 62026-2 EN ISO 13849-1
general information	Universal coding
Coding level according to ISO 14119	Low
Active principle	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	605 g
Time to readiness, maximum	5,000 ms
Reaction time, maximum	120 ms
Duration of risk, maximum	200 ms

## General data - Features

Power to unlock	Yes
Guard locking monitored	Yes
Latching	Yes
Manual release	Yes
Safety functions	Yes
Integral System Diagnostics, status	Yes
Number of actuating directions	3

## Safety appraisal

Standards	IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	$4.00 \times 10^{-10}$ /h
PFD value	$7.00 \times 10^{-5}$

Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)

### Mechanical data

Mechanical life, minimum	1,000,000 Operations
Note (Mechanical lifetime)	When using as door stop: $\geq 50.000$ operations (door mass $\leq 5$ kg and actuating speed $\leq 0.5$ m/s)
Clamping force	1,150 N
Latching force, adjustable, position 1	25 N
Latching force, adjustable, position 2	50 N

### Mechanical data - Switching distances according IEC 60947-5-3

Switch distance	2 mm
Ensured switch distance "ON" $S_{ao}$	1 mm
Ensured switch distance "OFF" $S_{ar}$	20 mm

### Mechanical data - Connection technique

Terminal Connector	Connector plug M12, 4-pole, (A-coding)
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### Mechanical data - Dimensions

Length of sensor	34.4 mm
Width of sensor	87.4 mm
Height of sensor	102.6 mm

### Ambient conditions

Degree of protection	IP66 to EN 60529 IP67 to EN 60529 IP69K to DIN 40050-9
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
Resistance to shock	30 g / 11 ms
Protection rating	II

### Ambient conditions - Insulation value

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

### Electrical data - AS Interface

AS-i Operating voltage, minimum	18 VDC
AS-i Operating voltage AS-i maximum	31.6 VDC
Note (AS-i Operating voltage)	Protection against polarity reversal
AS-i Current consumption, maximum	100 mA

### Electrical data - AS-Interface specification

AS-i Specification	Safety-Slave
AS-i Version	V 3.0

AS-i Profile	S-7.B.F.E
AS-i Input, Channel 1	Data bits DI 0 / DI 1 = dynamic code transmission
AS-i Input, Channel 2	Data bits DI 2 / DI 3 = dynamic code transmission
AS-i Outputs, DO 0	Solenoid control
AS-i Outputs, DO 1	No Function
AS-i Outputs, DO 2	No Function
AS-i Outputs, DO 3	No Function
AS-i Parameter bits, P0	Safety guard closed and can be locked
AS-i Parameter bits, P1	Solenoid interlock locked
AS-i Parameter bits, P2	Auxiliary voltage in
AS-i Parameter bits, P3	Internal device error (FID)
Note (AS-i Parameter bits)	Set the parameter outputs to "1111" (0xF) FID: periphery error
AS-i Input module address	0
Note (AS-i Input module address)	Preset to address 0, can be changed through AS-interface bus master or hand-held programming device

## Electrical data - Auxiliary voltage

Rated operating voltage	24 VDC -15% / +10% (stabilised PELV)
Operating current	300 mA

## Status indication

Note (LED switching conditions display)	(1) green/red LED (AS-i duo LED): Supply voltage/communication error/slave address = 0/periphery error detected/device error detected/manipulation protection active (2) LED yellow: Device condition (Enabling status) (3) LED red: Internal device error
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## Pin assignment

PIN 1	AS-Interface +
PIN 2	Aux - (P)

PIN 3 AS-Interface -

PIN 4 Aux + (P)

### **Scope of delivery**

Included in delivery Actuators must be ordered separately.

### **Accessory**

Recommendation (actuator) AZ/AZM300-B1

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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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