DATASHEET

AZM300Z-I2-ST-AS-P

- Thermoplastic enclosure
- Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119
- 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

Product type description	AZM300Z-I2-ST-AS-P
Article number (order number)	103005918
EAN (European Article Number)	4030661475196
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 ASi-SaW ECOLAB EAC FCC

General data

Standards	EN IEC 62026-2 EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1 EN IEC 61508
Coding	Individual coding, multiple teaching
Coding level according to EN ISO 14119	High
Working principle	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	595 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
Solenoid interlock monitored	Yes
Latching	Yes
Manual release	Yes
Safety functions	Yes
Integral system diagnostics, status	Yes
Number of actuating directions	3

Safety classification

Standards	EN IEC 61508
Performance Level, up to	e
Category	4
PFH value	4.00 x 10^{-10} /h
PFD value	7.00 x 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 life)	When using as door stop: ≥ 50.000 operations (door mass ≤ 5 kg and actuating speed ≤ 0.5 m/s)
Holding force	1,150 N
Latching force, adjustable, position 1	25 N
Latching force, adjustable, position 2	50 N

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

Assured switching distance "ON" S_{ao}	1 mm
Assured switching distance "OFF" S_{ar}	20 mm
Switch distance, typical	2 mm

Mechanical data - Connection technique

Termination	Connector plug M12, 4-pole, (A-coding)

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	IP67 IP69K IP66
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	10 … 150 Hz, amplitude 0.35 mm
Restistance to shock	30 g / 11 ms
Protection class	II

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	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)
Current consumption	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

Pin assignment

PIN 1	AS-Interface +
PIN 2	Aux - (P)
PIN 3	AS-Interface -
PIN 4	Aux + (P)

Scope of delivery

Scope of delivery	Actuators must be ordered separately.

Accessory

Recommendation (actuator)	AZ/AZM300-B1

Ordering code

Product type description:
AZM300(1)(2)-ST-AS-(3)(4)(5)

(1)

Z	Guard locking monitored
B	Actuator monitored

(2)

without	Standard coding

I1	Individual coding
I2	Individual coding, multiple teaching

(3)

without	Power to unlock
A	Power to lock

(4)

without	Magnet supply from AS-Interface
P	Magnet supply 24 VDC (AUX)

(5)

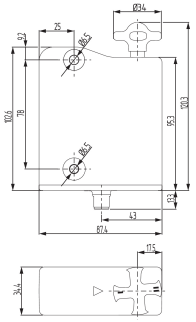
without	Manual release
N	Emergency release
T	Emergency exit
T8	Emergency exit, distance 8.5 mm

Pictures

Product picture (catalogue individual photo)

ID: kazm3f26
| 905.6 kB | .jpg | 352.425 x 440.619 mm - 999 x 1249 px - 72 dpi
| 59.1 kB | .png | 74.083 x 92.428 mm - 210 x 262 px - 72 dpi

Dimensional drawing basic component



ID: kazm3g02
| 7.1 kB | .png | 73.731 x 125.589 mm - 209 x 356 px - 72 dpi
| 163.3 kB | .jpg | 352.778 x 599.369 mm - 1000 x 1699 px - 72 dpi

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