DATASHEET

AZM201BZ-ST-T-AS-P

- Thermoplastic enclosure
- High holding force 2000
- 40 mm x 244 mm x 50 mm
- Interlock with protection against incorrect locking.
- Double-insulated
- Long life
- Integrated AS-Interface
- 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

Data

Ordering data

Product type description	AZM201BZ-ST-T-AS-P
Article number (order number)	103025873
EAN (European Article Number)	4030661524313
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 EAC FCC IC

General data

Standards	EN IEC 62026-2 EN IEC 62061 EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-3 EN IEC 61508
Coding	Individual coding
Coding level according to EN ISO 14119	Low
Working principle	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	541 g
Time to readiness, maximum	4,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Power to unlock	Yes
Actuator and interlock combined monitored	Yes
Latching	Yes
Manual release	Yes
Safety functions	Yes
Integral system diagnostics, status	Yes
Number of actuating directions	2

Safety classification

Standards	EN ISO 13849-1 EN IEC 62061 EN IEC 61508

Safety classification - Interlocking function

Performance Level, up to	e
Category	4
PFH value	1.81 x 10^{-9} /h
PFD value	1.59 x 10^{-4}
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Holding force F_{Zh} in accordance with EN ISO 14119	2,000 N
Holding force F_{max}, maximum	2,600 N
Latching force	30 N
Actuating speed, maximum	0.2 m/s
Tightening torque of the fixing screws, maximum	8 Nm

Mechanical data - Connection technique

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

Mechanical data - Dimensions

Length of sensor	50 mm

Width of sensor	40 mm
Height of sensor	220 mm

Ambient conditions

Degree of protection	IP67 IP66
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Relative humidity, minimum	10 %
Relative humidity, maximum	95 %
Note (Relative humidity)	non-condensing non-icing
Resistance to vibrations	10 ... 150 Hz, amplitude 0.35 mm
Restistance 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	3

Electrical data

Switching frequency, maximum	1 Hz

Electrical data - AS Interface

AS-i Operating voltage, minimum	26.5 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, IO-Code	0x7
AS-i, ID-Code	0xB
AS-i, ID-Code1	0xF
AS-i, ID-Code2	0xE
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 and actuator detected
AS-i Parameter bits, P1	Solenoid interlock locked
AS-i Parameter bits, P2	Magnet voltage in tolerance range
AS-i Parameter bits, P3	Internal device error (FID)
Note (AS-i Parameter bits)	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	500 mA

Status indication

Note (LED switching conditions display)	Status and diagnostics: Transmitter + receiver (2) LED red: Internal device error (3) LED yellow: Device condition

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/AZM201-B1 AZ/AZM201-B30

Ordering code

Product type description:
AZM201(1)(2)-ST-T-AS(3)P

(1)

Z	Solenoid interlock monitored
B	Actuator monitored

BZ	Combined monitoring of actuator and solenoid interlock

(2)

without	Standard coding
I1	Individual coding
I2	Individual coding, re-teaching enabled

(3)

without	Power to unlock
A	Power to lock

P

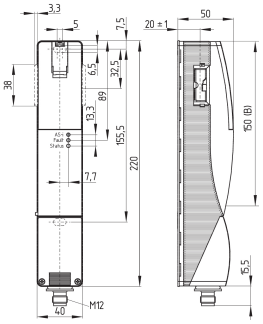
P	Magnet supply 24 VDC (AUX)

Pictures

Product picture (catalogue individual photo)

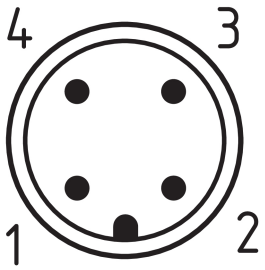
ID: kazm2f51
| 441.1 kB | .jpg | 134.761 x 625.122 mm - 382 x 1772 px - 72 dpi
| 218.5 kB | .png | 74.083 x 343.606 mm - 210 x 974 px - 72 dpi

Dimensional drawing basic component



ID: 5azm2m75
| 7.2 kB | .png | 74.083 x 91.369 mm - 210 x 259 px - 72 dpi
| 253.1 kB | .jpg | 352.778 x 434.975 mm - 1000 x 1233 px - 72 dpi

Contact arrangement



ID: km12-k4c
| 4.2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi
| 113.3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi