



AZM201B-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	AZM201B-ST-T-AS-P
Article number (order number)	103025859
EAN (European Article Number)	4030661524191
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
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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	537 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 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
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Safety classification - Interlocking function

Performance Level, up to	e
Category	4
PFH value	1.81×10^{-9} /h
PFD value	1.59×10^{-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)
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Mechanical data - Dimensions

Length of sensor	50 mm
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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
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	3

Electrical data

Switching frequency, maximum	1 Hz
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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
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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

Scope of delivery	Actuators must be ordered separately.
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Accessory

Recommendation (actuator)	AZ/AZM201-B1 AZ/AZM201-B30
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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)

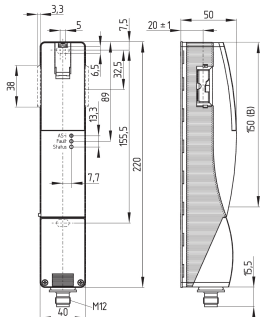


ID: kazm2f51

| 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

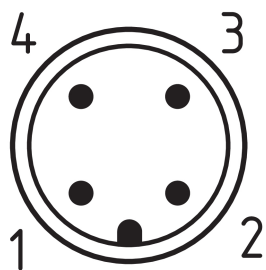


ID: 5azm2m75

| 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

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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