

AZ201-ST-T-AS



- Protection class IP67
- Intelligent diagnosis
- 40 mm x 220 mm x 50 mm
- Thermoplastic enclosure
- Integrated AS-Interface
- With door detection sensor T
- 3 LEDs to show operating conditions
- Safety switch with separate actuator
- Sensor technology permits an offset between actuator and interlock of ± 5 mm vertically and ± 3 mm horizontally

Data

Ordering data

Product type description	AZ201-ST-T-AS
Article number (order number)	103027843
EAN (European Article Number)	4030661524351
eCl@ss number, Version 9.0	27-27-26-02
eCl@ss number, Version 11.0	27-27-26-02

Approval - Standards

Certificates	TÜV
	cULus
	ASi-SaW
	EAC
	FCC
	IC

General data

Product name	AZ 201 AS
Standards	ISO 13849-1
	IEC 61508
	IEC 60947-5-3
	ISO 14119
	IEC 62061
	EN 62026-2
general information	Universal coding
Coding level according to ISO 14119	Low

Active principle	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	354.6 g
Time to readiness, maximum	4,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Latching	Yes
Safety functions	Yes
Integral System Diagnostics, status	Yes
Number of actuating directions	2

Safety appraisal

Standards	ISO 13849-1 IEC 62061 IEC 61508
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Safety appraisal - Interlocking

Performance level, up to	e
Control 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
Latching force	30 N
Actuating speed, maximum	0.2 m/s
Tightening torque for the fixing screws, maximum	8 Nm

Mechanical data - Connection technique

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

Length of sensor	50 mm
Width of sensor	40 mm
Height of sensor	220 mm

Ambient conditions

Degree of protection	IP66 to IEC 60529 IP67 to IEC 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+65 °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 to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm
Resistance to shock	30 g / 11 ms
Protection rating	III

Ambient conditions - Insulation value

Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to IEC/EN 60664-1	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-0.B.F.E
AS-i, IO-Code	0x0
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	No Function

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	Static 0
AS-i Parameter bits, P3	Internal device error (FID)
Note (AS-i Parameter bits)	FID: periphery error
AS-i AS-i Parameter bits (A/B Slave), P2	Enabling inhibit (tamper protection time) active (FID)
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

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	n.c.
PIN 3	AS-Interface -
PIN 4	n.c.

Scope of delivery

Included in 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

NB, MBN, BN Actuator monitored

BZ Combined monitoring of actuator and solenoid interlock

(2)

I1 Individual coding

I2 Individual coding, re-teaching enabled

(3)

without Power to unlock (spring-operated locking)

A Power to lock (magnet-operated locking)

P

without 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

Pixel - 72 dpi

| 218,5 kB | .png | 74.083 x 343.606 mm - 210 x 974

Pixel - 72 dpi

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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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