AZM201Z-I1-SK-T-1P2PW



- **Manual release**
- **Power to unlock**
- **Intelligent diagnosis**
- **Thermoplastic enclosure**
- **Guard locking monitored**
- **Self-monitoring series-wiring**
- **3 LEDs to show operating conditions**
- **Max. length of the sensor chain 200 m**
- **Suitable for hinged and sliding guards**
- **Individual coding with RFID technology**
- **Coding level "High" according to ISO 14119**
- **RFID-technology for needs-based protection against tampering**
- **Sensor technology permits an offset between actuator and interlock of ± 5 mm vertically and ± 3 mm horizontally**

Data

Ordering data	
	AZM201Z-I1-SK-T-1P2PW
	103013483
EAN (European Article Number)	4030661493268
eCl@ss number, Version 9.0	27-27-26-03
Approval - Standards	
	TÜV cULus EAC FCC IC
General data	
	AZM 201

	IEC 60947-5-1 ISO 13849-1 IEC 61508 IEC 60947-5-3 ISO 14119 IEC 62061
general information	Individual coding
Coding level according to ISO 14119	High
	RFID
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	588 g
Time to readiness, maximum	4,000 ms
Duration of risk, maximum	200 ms
General data - Features	
Power to unlock	Yes
Guard locking monitored	Yes
Manual release	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Series-wiring	Yes
Safety functions	Yes
Integral System Diagnostics, status	Yes
Number of safety contacts	2
Safety appraisal	
	ISO 13849-1 IEC 62061 IEC 61508
Safety appraisal - Interlocking	
Performance level, up to	e
Control category	4
PFH-value	1.90×10^{-9} /h
PFD value	1.60×10^{-4}
Safety Integrity Level (SIL), applicable for	3
Mission Time	20 Year(s)
Safety appraisal - Guard locking	
Performance level, up to	d
Control category	2

PFH-value	1.00 x 10^{-8} /h
PFD value	8.90 x 10^{-4}
Safety Integrity Level (SIL), applicable for	2
Mission Time	20 Year(s)

Mechanical data	
Mechanical life, minimum	1,000,000 Operations
Clamping force in accordance with ISO14119 F zh	2,000 N
Clamping force, maximum F max	2,600 N
Latching force	30 N
Actuating speed, maximum	0.2 m/s

Mechanical data - Connection technique	
Terminal Connector	Screw connection
	0.25 mm²
	1.5 mm²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.
Wire cross-section, minimum	23 AWG
Wire cross-section, maximum	15 AWG

Mechanical data - Dimensions	
Height of sensor	220 mm
Length of sensor	50 mm
Width of sensor	40 mm

Ambient conditions	
Protection class	IP66 to IEC 60529 IP67 to IEC 60529
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	30 %
Relative humidity, maximum	95 %
Note (Relative humidity)	non-condensing

Resistance to vibrations to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm
	30 g / 11 ms
	III
Ambient conditions - Insulation value	
Rated impulse withstand voltage	0.8 kV
	III
	3
Electrical data	
Operating voltage, minimum	20.4 VDC
Operating voltage, maximum	26.4 VDC
No-load current	600 mA
Operating current	1,200 mA
Reaction time of actuator, maximum	100 ms
Reaction time of input, maximum	0.5 ms
Switching frequency, approx.	1 Hz
Electrical data - Solenoid control	
	-3 V ... 5 V (Low) 15 V ... 30 V (High)
	C0
	C1 C2 C3
Electrical data - Fail-safe digital inputs	
	−3 V ... 5 V (Low) 15 V ... 30 V (High)
	C1
	C1 C2 C3
Electrical data - Fail-safe digital outputs	
Rated operating current (safety outputs)	250 mA
Voltage drop U_d, maximum	4 V
Current leakage	0.5 mA

Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.3 A
	C2
	C1 C2
Electrical data - Diagnostic output	
Operating current (diagnostic output)	50 mA
Voltage drop U_d, maximum	4 V
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.1 A
Status indication	
Note (LED switching conditions display)	Operating condition: LED green Error / functional defect: LED red Supply voltage UB: LED green
Scope of delivery	
Included in delivery	Actuators must be ordered separately. Triangular key for AZM 201
Accessory	
	AZ/AZM201-B1 AZ/AZM201-B30
Notes	
Note (General)	As long as the actuating unit remains inserted in the solenoid interlock, the unlocked safety guard can be relocked. In this case, the safety outputs are re-enabled, so that the safety guard must not be opened.
Ordering code	

Product type description:

AZM201(1)-(2)-(3)-T-(4)-(5)

(1)

Z	Solenoid interlock monitored
NB, MBN, BN	Actuator monitored

(2)

without Standard coding

I1 Individual coding

I2 Individual coding, re-teaching enabled

(3)

SK Screw terminals

CC Cage clamps

ST Connector plug M23, 12-pole

(4)

1P2PW 1 diagnostic output, p-type and >2 safety outputs, p-type > (combined diagnostic signal: guard system closed and interlock locked)

SD2P serial diagnostic output and 2 p-type safety outputs

(5)

without Power to unlock

A Power to lock

Pictures

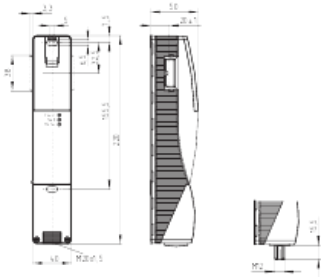
Photo/Product/Catalogue



ID: kazm2f48

| 335,0 kB | .png | 74.083 x 340.783 mm - 210 x 966 Pixel - 72 dpi
| 735,6 kB | .jpg | 135.819 x 625.122 mm - 385 x 1772 Pixel - 72 dpi

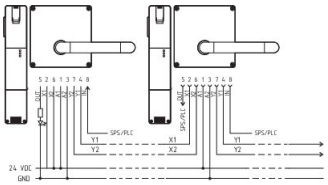
Dimension/Product/Basic



ID: 1azm2g12

| 5,3 kB | .png | 74.083 x 64.911 mm - 210 x 184 Pixel - 72 dpi
| 146,3 kB | .jpg | 352.778 x 308.681 mm - 1000 x 875 Pixel - 72 dpi
| 21,1 kB | .jpg | 169.686 x 148.519 mm - 481 x 421 Pixel - 72 dpi

Graphic/Product/Wiring



ID: kazm2l26

| 105,6 kB | .jpg | 352.778 x 192.969 mm - 1000 x 547 Pixel - 72 dpi
| 50,3 kB | .cdr |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal
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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