

AZM200BSK-T-1P2PW



- Manual release
- Actuator monitored
- Intelligent diagnosis
- Thermoplastic enclosure
- Self-monitoring series-wiring
- 3 LEDs to show operating conditions
- Electronic contact-free, coded system
- Max. length of the sensor chain 200 m
- Sensor technology permits an offset between actuator and interlock of ± 5 mm vertically and ± 3 mm horizontally

Data

Ordering data

Note (Delivery capacity)	Phased-out product
Product type description	AZM 200 B SK-T-1P2PW
Article number (order number)	101194472
EAN (European Article Number)	4030661358840
eCl@ss number, Version 9.0	27-27-26-03
Available until	31.12.2020

Approval - Standards

Certificates	TÜV cULus EAC
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General data

Product name	AZM 200
Standards	IEC 61508 ISO 13849-1 EN 60947-5-1
Active principle	inductive
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	600 g
Time to readiness, maximum	4,000 ms

Reaction time, maximum	60 ms
Duration of risk, maximum	120 ms

General data - Features

Power to unlock	Yes
Actuator 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

Standards	IEC 60947-5-3 IEC 61508
Mission Time	20 Year(s)

Safety appraisal - Interlocking

Performance level, up to	e
Control category	4
PFH-value	4.00×10^{-9} /h
PFD value	1.00×10^{-4}
Safety Integrity Level (SIL), applicable for	3
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
Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²
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 IP 67 to IEC/EN 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 ... 55 Hz, amplitude 1 mm

Resistance to shock 30 g / 11 ms

Protection rating II

Ambient conditions - Insulation value

Rated impulse withstand
voltage 0.8 kV

Overvoltage category III

Degree of pollution to VDE 0100 3

Electrical data

Operating voltage, minimum 20.4 VDC

Operating voltage, maximum 26.4 VDC

No-load current 600 mA

Operating current 50 mA

Switching frequency, approx. 1 Hz

Electrical data - Solenoid control

Switching thresholds of magnet -3 V ... 5 V (Low)

inputs 15 V ... 30 V (High)

Electrical data - Fail-safe digital inputs

Switching thresholds of fail-safe inputs	-3 V ... 5 V (Low) 15 V ... 30 V (High)
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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	0.25 A

Electrical data - Diagnostic output

Voltage drop U_d , maximum	4 V
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.05 A

Status indication

Note (LED switching conditions display)	Operating condition: LED green Error / functional defect: LED red Supply voltage U_B : LED green
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Scope of delivery

Included in delivery	Actuators must be ordered separately. Triangular key for AZM 200
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Accessory

Recommendation (actuator)	AZ/AZM 200-B1
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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.
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Ordering code

Product type description:

AZM 200(1)(2)-T-(3)(4)

(1)

without Guard locking monitored

B Actuator monitored

(2)

SK Screw connection

CC Spring pulley connection

ST1 Connector M23 x 1, (8+1 pole)

ST2 Connector M12 x 1, 8 pole

(3)

1P2P 1 serial diagnostic output and 2 p-type safety outputs

1P2PW same as 1P2P, combined diagnostic signal: guard system closed and interlock locked

SD2P serial diagnostic output and 2 p-type safety outputs

(4)

without Power to unlock

A Power to lock

Pictures

Product picture (catalogue individual photo)



ID: kazm2f48

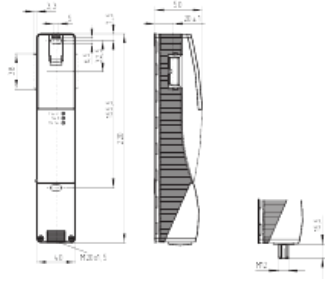
| 335,0 kB | .png | 74.083 x 340.783 mm - 210 x 966

Pixel - 72 dpi

| 735,6 kB | .jpg | 135.819 x 625.122 mm - 385 x 1772

Pixel - 72 dpi

Dimensional drawing basic component



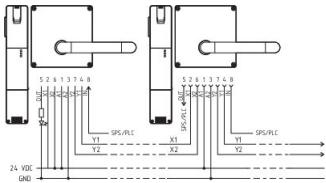
ID: 1azm2g12

| 5,3 kB | .png | 74.083 x 64.911 mm - 210 x 184 Pixel
- 72 dpi

| 21,1 kB | .jpg | 169.686 x 148.519 mm - 481 x 421
Pixel - 72 dpi

| 146,3 kB | .jpg | 352.778 x 308.681 mm - 1000 x 875
Pixel - 72 dpi

Wiring example



ID: kazm2l26

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

| 50,3 kB | .cdr |

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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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