



AZM 200SK-T-1P2PW

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

Data

Ordering data

Note (Delivery capacity)	Not available!
Product type description	AZM 200SK-T-1P2PW
Article number (order number)	101195442
EAN (European Article Number)	4030661360799
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
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General data

Standards	EN ISO 13849-1 EN IEC 60947-5-1 EN IEC 61508
Working principle	inductive
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	590 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
Solenoid interlock monitored	Yes
Manual release	Yes
Short circuit detection	Yes
Cross-circuit detection	Yes
Series-wiring	Yes
Safety functions	Yes
Integral system diagnostics, status	Yes
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1 EN IEC 60947-5-3 EN IEC 61508
Mission time	20 Year(s)

Safety classification - Interlocking function

Performance Level, up to	e
Category	4

PFH value	4.00 x 10 ⁻⁹ /h
PDF value	1.00 x 10 ⁻⁴
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Safety classification - Guard locking function

Performance Level, up to	d
Category	2
PFH value	2.50 x 10 ⁻⁹ /h
PDF value	2.20 x 10 ⁻⁴
Safety Integrity Level (SIL), suitable for applications in	2
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
Note (clamping force F_{Zh})	1,000 N when used with the AZ/AZM201-B30 actuator, for indoor use.
Holding force F_{max} , maximum	2,600 N
Note (clamping force F_{max})	1,300 N when used with the AZ/AZM201-B30 actuator, for indoor use.
Latching force	30 N
Actuating speed, maximum	0.2 m/s
Tightening torque of the fastening screws for the housing cover, minimum	0.7 Nm
Tightening torque of the fastening screws for the housing cover, maximum	1 Nm
Note	Torx T10

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²
Note (Cable section)	All indications including the conductor ferrules.
Wire cross-section, minimum	23 AWG
Wire cross-section, maximum	15 AWG
Wire cross-section	23 ... 15 AWG

Mechanical data - Dimensions

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

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +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	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms
Protection class	II

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

Operating voltage	24 VDC -15 % / +10 %
No-load supply current I_0 , maximum	600 mA
Rated operating voltage	24 VDC
Operating current	50 mA
Switching frequency, approx.	1 Hz

Electrical data - Magnet control

Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
Magnet switch-on time	100 %

Electrical data - Safety digital inputs

Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
Current consumption at 24V	5 mA

Electrical data - Safety digital outputs

Rated operating current (safety outputs)	250 mA
Voltage drop U_d , maximum	4 V
Leakage current I_r , maximum	0.5 mA
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.25 A

Electrical data - Diagnostic outputs

Voltage drop U_d , maximum	4 V
Voltage, Utilisation category DC-13	24 VDC

Status indication

Note (LED switching conditions display)

Operating condition: LED green
Error / functional defect: LED red
Supply voltage UB: LED green

Scope of delivery

Scope of delivery

Actuators must be ordered separately.
Triangular key for AZM 200

Accessory

Recommendation (actuator)

AZ/AZM 200-B1

Note

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:
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)

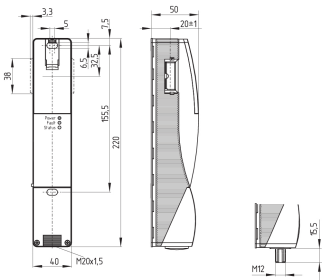


ID: kazm2f48

| 335.0 kB | .png | 74.083 x 340.783 mm - 210 x 966 px - 72 dpi

| 735.6 kB | .jpg | 135.819 x 625.122 mm - 385 x 1772 px - 72 dpi

Dimensional drawing basic component



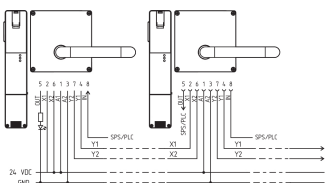
ID: 1azm2g12

| 146.3 kB | .jpg | 352.778 x 308.681 mm - 1000 x 875 px - 72 dpi

| 5.3 kB | .png | 74.083 x 64.911 mm - 210 x 184 px - 72 dpi

| 21.1 kB | .jpg | 169.686 x 148.519 mm - 481 x 421 px - 72 dpi

Wiring example



ID: kazm2l26

| 50.3 kB | .cdr |

| 105.6 kB | .jpg | 352.778 x 192.969 mm - 1000 x 547 px - 72 dpi

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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