Datasheet - AZM201Z-I1-SK-T-1P2PW

Solenoid interlock / AZM201





(Minor differences between the printed image and the original product may

- · Thermoplastic enclosure
- RFID-technology for needs-based protection against tampering
- Max. length of the sensor chain 200 m
- Self-monitoring series-wiring of 31 sensors
- 3 LEDs to show operating conditions
- ullet Sensor technology permits an offset between actuator and interlock of ${f \pm}$ 5 mm vertically and ± 3 mm horizontally
- · Suitable for hinged and sliding guards
- · Intelligent diagnosis
- Manual release
- · Individual coding with RFID technology
- · Coding level "High" according to ISO 14119
- · Power to unlock
- Guard locking monitored

Ordering details

Product type description

Article number

EAN Code

eCl@ss

exist!)

AZM201Z-I1-SK-T-1P2PW

103013483

4030661493268

27-27-26-03

Approval

Approval



Classification

Interlocking function:

Standards

PL

Control category

PFH value PFD value

SIL

Mission time

EN ISO 13849-1, IEC 61508, IEC 62061

1.9 x 10-9/h

1.6 x 10-4

Suitable for SIL 3 applications

20 Years

Guard locking function:

Standards ISO 13849-1, IEC 61508, IEC 62061

PL d
Control category 2

PFH value 1.0 x 10-8 / h
PFD value 8.9 x 10-4

SIL Suitable for SIL 3 applications

Mission time 20 Years

Global Properties

Permanent light AZM201

Standards IEC 60947-5-1, IEC 60947-5-3, ISO 14119, ISO 13849-1, IEC 61508, IEC

62061

Compliance with the Directives (Y/N)

Suitable for safety functions (Y/N)

Yes

Protection rating

III

Series-wiring up to 31 components

Length of the sensor chain200 mActive principleRFIDDuty cycle100Coding levels according to ISO 14119High

Coding Individual coding

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic

Housing coating

Weight

590

Guard locking monitored (Y/N)

Actuator monitored (Y/N)

No

Idle assignable pushbutton and LED (Y/N)

No

Response time

Actuator ≤ 100 Duration of risk < 200Time to readiness < 4000

Recommended actuator AZ/AZM201-B1, AZ/AZM201-B30

- Actuator ≤ 100 ms - Inputs ≤ 0,5 ms

Mechanical data

Design of electrical connection Screw connection

Cable section

- Min. Cable section 0,25 mm²
- Max. Cable section 1.5 mm²

AWG-Number 23 - 15

Mechanical life ≥ 1.000.000 operations

notice All indications about the cable section are including the conductor ferrules.

restistance to shock 30 / 11

Resistance to vibration 10 ... 150 HZ, Amplitude 0,35 mm

Emergency unlocking device (Y/N) No Manual release (Y/N) Yes Emergency release (Y/N) No Latching force 30 Clamping force 2000 Max. Actuating speed ≤ 0.2

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 Relative humidity
 30... 95

- non-condensing

Protection class IP66, IP67 to IEC 60529

Air clearances and creepage distances To IEC/EN 60664-1

Rated impulse withstand voltage
 Overvoltage category
 Degree of pollution
 3

Electrical data

Number of auxiliary contacts 0
Number of safety contacts 2
Cross circuit/short circuit recognition possible (Y/N) Yes
Power to unlock Yes
Power to lock No

Supply voltage

- Min. supply voltage 20.4 V DC
- Max. supply voltage 26.4 V DC
Switch frequency 1

Rated insulation voltage 32 V DC
Operating current 1.2 A
Utilisation category DC-13
No-load current 0,6 A

Device insulation ≤ 4 A if used in accordance with UL 508

Electrical data - Safety inputs

Safety inputs $\begin{array}{c} \text{X1 and X2} \\ \text{Rated operating voltage} \\ \end{array} \begin{array}{c} -3 \dots 5 \text{ (Low)} \\ 15 \dots 30 \text{ (High)} \end{array}$

Operating current typically 2 at 24

Electrical data - Safety outputs

Safety outputs Y1 and Y2

Fuse rating short-circuit proof, p-type

Rated operating voltage $0 \dots 4$ under Residual current $\leq 0,5$

Operating current max. each 0,25 A

Utilisation category DC-13

Electrical data - Diagnostic output

Serial diagnostics (Y/N) No

Fuse rating p-type, short-circuit proof

Operating current

Utilisation category

Wiring capacitance for serial diagnostics

diagnostic signals

Operating principle of the diagnostic output

notice

0,05 A

DC-13: 24 V / 0,05 A

guard door closed and interlocking device locked

The short-circuit proof diagnostic output OUT can be used for central

visualisation or control tasks, e.g. in a PLC.

The diagnostic output is not a safety-relevant output!

Electrical data - Solenoid control IN

Rated operating voltage Ue

Operating current le

Control command

-3 V ... 5 V (Low)

15 V ... 30 V (High)

typically 10 mA at 24 V, dynamically 20 mA

LED switching conditions display

LED switching conditions display (Y/N)

LED switching conditions display

- Supply voltage - switching condition

- Error functional defect

Yes

green LED

yellow LED red LED

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

None

Dimensions

Dimensions of the sensor

- Width of sensor - Height of sensor - Length of sensor

40 mm

220

50

notice

As lons as the actuating unit remains inserted in the solenoid interlock, the unlocked safety guard can be relocked. The safety outputs then will be enabled again; opening the safety guard therefore is not required.

Included in delivery

Included in delivery

AZM201 Triangular key

Actuators must be ordered separately.

Ordering code

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

(1)

Z

В

(2)

without Included in standard version Coding

Individual codingIndividual coding

(3)

SK Screw terminals
CC Cage clamps

ST2 connector plug M12, 8-pole

(4)

1 Diagnostic output, p-type and

2 Safety outputs, p-type

(combined diagnostic signal: guard door closed and interlocking device

locked)

SD2P serial diagnostic output and 2 Safety outputs, p-type

(5)

withoutPower to unlockAPower to lock

Documents

Operating instructions and Declaration of conformity (pl) 480 kB, 26.11.2018

Code: mrl_azm201_pl

Operating instructions and Declaration of conformity (nl) 451 kB, 23.10.2018

Code: mrl_azm201_nl

Operating instructions and Declaration of conformity (de) 391 kB, 10.08.2018

Code: mrl_azm201_de

Operating instructions and Declaration of conformity (es) 459 kB, 23.08.2018

Code: mrl_azm201_es

Operating instructions and Declaration of conformity (fr) 423 kB, 03.05.2018

Code: mrl_azm201_fr

Operating instructions and Declaration of conformity (en) 458 kB, 10.08.2018

Code: mrl_azm201_en

Operating instructions and Declaration of conformity (it) 417 kB, 19.06.2018

Code: mrl_azm201_it

Operating instructions and Declaration of conformity (jp) 528 kB, 12.10.2017

Code: mrl_azm201_jp

Operating instructions and Declaration of conformity (pt) 461 kB, 15.08.2018

Code: mrl azm201 pt

Operating instructions and Declaration of conformity (cn) 624 kB, 23.11.2018

Code: mrl_azm201_cn

Wiring example (99) 21 kB, 12.01.2009

Code: kazm2l26

Brochure (de) 6 MB, 15.02.2018

Code: b_css_brosch09_de

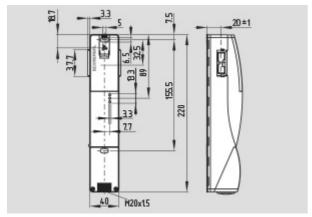
Brochure (en) 6 MB, 15.02.2018

Code: b_css_brosch09_en

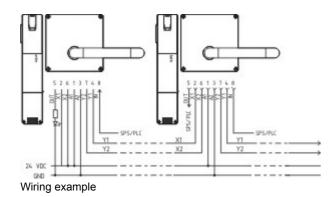
TÜV certification (de, en) 352 kB, 06.02.2018

Code: z_azmp07

Images



Dimensional drawing (miscellaneous)



System components

Actuator



103013499 - AZ/AZM201-B30-RTAG1P1-SZ

- · Actuator for hinged guards
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- No supplementary door handles required
- Does not protrude into the door opening
- · for right hinged doors
- with handle and Emergency exit handle
- with integrated lockout tag

103013497 - AZ/AZM201-B30-RTAG1P1

- · Actuator for hinged guards
- · Easy and intuitive operation
- No risk of injury from protruding actuator
- No supplementary door handles required
- Does not protrude into the door opening
- · for right hinged doors
- with handle and Emergency exit handle















103013502 - AZ/AZM201-B30-RTAG1

- · Actuator for hinged guards
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- · for right hinged doors
- · with handle

103013500 - AZ/AZM201-B30-LTAG1P1-SZ

- · Actuator for hinged guards
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- No supplementary door handles required
- Does not protrude into the door opening
- for left hinged doors
- · with handle and Emergency exit handle
- · with integrated lockout tag

103013498 - AZ/AZM201-B30-LTAG1P1

- · Actuator for hinged guards
- · Easy and intuitive operation
- · No risk of injury from protruding actuator
- No supplementary door handles required
- Does not protrude into the door opening
- · for left hinged doors
- with handle and Emergency exit handle

103013501 - AZ/AZM201-B30-LTAG1

- · Actuator for hinged guards
- Easy and intuitive operation
- · No risk of injury from protruding actuator
- · No supplementary door handles required
- Does not protrude into the door opening
- for left hinged doors
- with handle

103013495 - AZ/AZM201-B1-RTP0

- · Actuators with return spring
- Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel
- · for right hinged doors
- · with Emergency exit

103013494 - AZ/AZM201-B1-RT

- · Actuators with return spring
- Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel
- · for right hinged doors

103013496 - AZ/AZM201-B1-LTP0

- · Actuators with return spring
- · Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel
- · for left hinged doors
- with Emergency exit



103013493 - AZ/AZM201-B1-LT

- · Actuators with return spring
- Actuator for sliding guards
- Tolerates up to max. 5 mm overtravel
- for left hinged doors

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:50:39h Kasbase 3.3.0.F.64I