

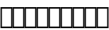


Solenoid interlock AZM201Z-CC-T-1P2PW-DU

Table of Contents

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1.1 

1.2 : 

1.3 

1.4 

1.5 

2 

2.1 

2.2 

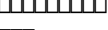
2.3 

2.4 

2.5 

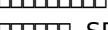
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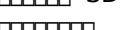
3 

3.1 

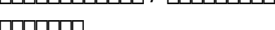
3.2 

4 

4.1 

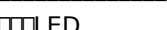
4.3  -SD

4.4 

5  / 

6 

6.1 

6.2 

6.3 LED

6.4 

6.5 SD

7 

8 

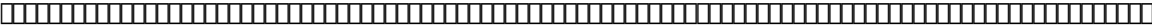
8.1 

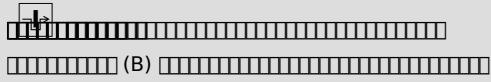
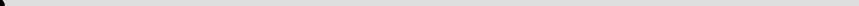
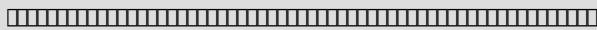
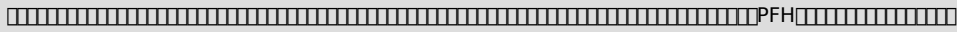
8.2 

9  - 

1

1.1




[illegible]

A warning icon (a triangle with an exclamation mark) is positioned on the left. To its right is a long, thin progress bar consisting of many small, empty rectangular segments, indicating a long or ongoing process.

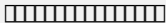
[illegible]

Approvals - Standards

Certificates	TÜV cULus FCC IC UKCA ANATEL
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General data

4-23

Coding level according to EN ISO 14119	Low
Working principle	RFID
Frequency band RFID	125 kHz
Transmitter output RFID, maximum	-6 dBm
Housing material	
Duration of risk, maximum	200 ms
Reaction time, switching off safety outputs via actuator, maximum	100 ms
Reaction time, switching off safety outputs via safety inputs, maximum	1.5 ms
Gross weight	566 g

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 61508
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Safety classification - Interlocking function

Performance Level, up to	e
Category	4
PFH value	1.90×10^{-9} /h
PFD value	1.60×10^{-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

Height of sensor	220 mm
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Ambient conditions

Degree of protection	IP66 IP67
Ambient temperature	-25 ... +60 °C
Storage and transport temperature	-25 ... +85 °C
Relative humidity, maximum	93 %
Note (Relative humidity)	non-condensing non-icing
Resistance to vibrations	10 ~ 150 Hz  0.35 mm
Resistance to shock	30 g / 11 ms
Protection class	III
Permissible installation altitude above sea level, maximum	2,000 m

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 % (PELV )
No-load supply current I_0 , typical	50 mA
Current consumption with magnet ON, average	200 mA
Current consumption with magnet ON, peak	700 mA / 100 ms
Rated operating voltage	24 VDC
Operating current	1,200 mA
Required rated short-circuit current	100 A
External wire and device fuse rating	4A gG
Time to readiness, maximum	4,000 ms
Switching frequency, maximum	1 Hz

Electrical data - Magnet control

Designation, Magnet control	IN
Switching thresholds	-3 V ... 5 V (Low) 15 V ... 30 V (High)
Current consumption at 24 V	10 mA

Magnet switch-on time	100 %
Test pulse duration, maximum	5 ms
Test pulse interval, minimum	40 ms
Classification ZVEI CB24I, Sink	C0
Classification ZVEI CB24I, Source	C1 C2 C3

Electrical data - Safety digital inputs

Designation, Safety inputs	X1 and X2
Switching thresholds	–3 V ... 5 V (Low) 15 V ... 30 V (High)
Current consumption at 24 V	5 mA
Test pulse duration, maximum	1 ms
Test pulse interval, minimum	100 ms
Classification ZVEI CB24I, Sink	C1
Classification ZVEI CB24I, Source	C1 C2 C3

Electrical data - Safety digital outputs

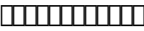
Designation, Safety outputs	Y1 and Y2
Rated operating current (safety outputs)	250 mA
Design of control elements	short-circuit proof, p-type
Voltage drop U_d , maximum	2 V
Leakage current I_p , maximum	0.5 mA
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.25 A
Test pulse interval, typical	1000 ms
Test pulse duration, maximum	0.5 ms
Classification ZVEI CB24I, Source	C2
Classification ZVEI CB24I, Sink	C1 C2

Electrical data - Diagnostic outputs

Designation, Diagnostic outputs	OUT
Operating current	50 mA
Design of control elements	short-circuit proof, p-type
Voltage drop U_d , maximum	4 V
Voltage, Utilisation category DC-13	24 VDC

Status indication

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

[illegible]

☐ JAZM ☐

☐

☐ Y1/Y2 OFF ☐ 2 ☐

[illegible]

UL

NFPA 79

FCC/IC -

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FCC 15
 RSS /
 2

- (1)
- (2)

100mm SED SPR-002 K.A.

[illegible]

- (1)
- (2)

100mm SED CNR-102

Schmersal GmbH & Co. KG



20941-22-14519

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Para maiores informações consultar: **www.gov.br/anatel**

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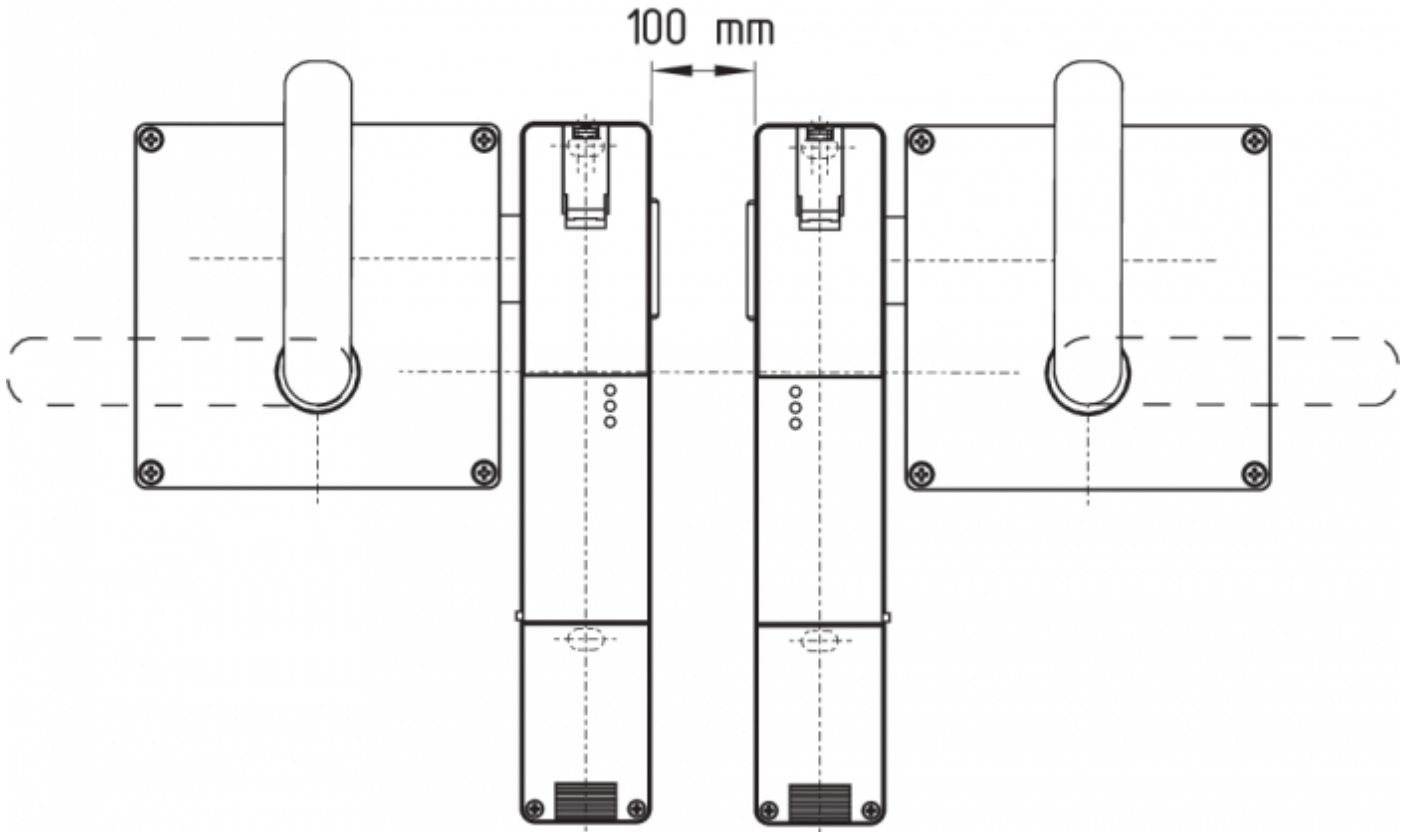
3.1



ISO 12100ISO 14119ISO 14120

M6 2 (2)

2
(125kHz): 100 mm





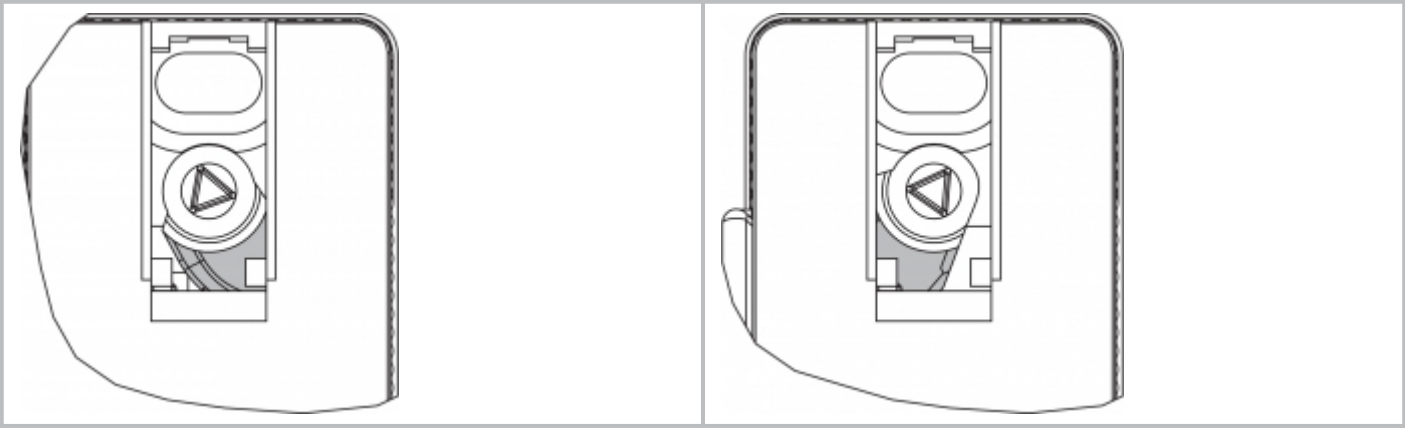
"A" ()



: , : 1.3 Nm.

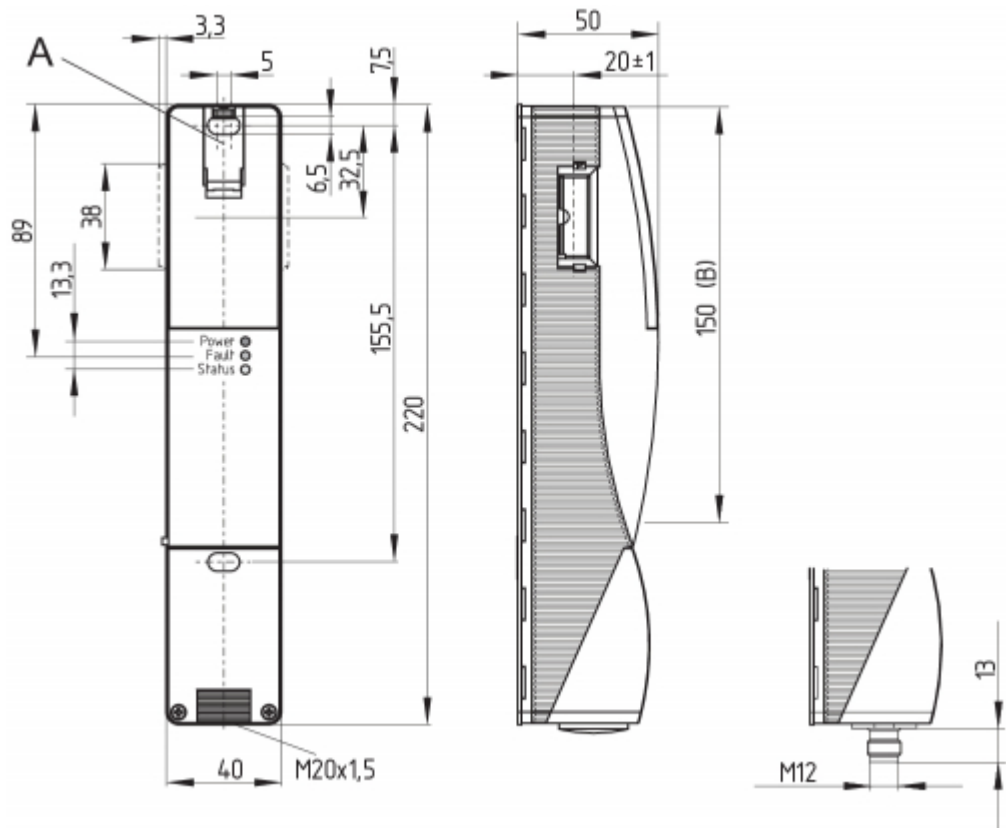
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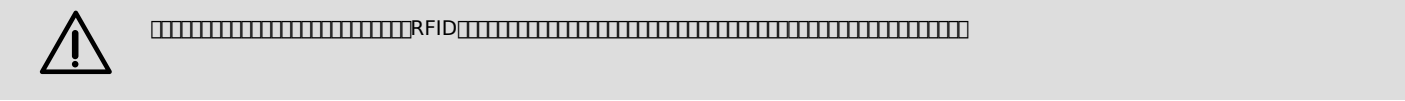


3.2

mm



A: B: RFID



/

	RF	RF
RF	RF-AZM200-N	103003543
RF	RF-AZM200-T	103004966

4 RF

4.1 RF



RF EN 60204-1 RF

RF

RF

RF:
2 RF 2 PNP RF

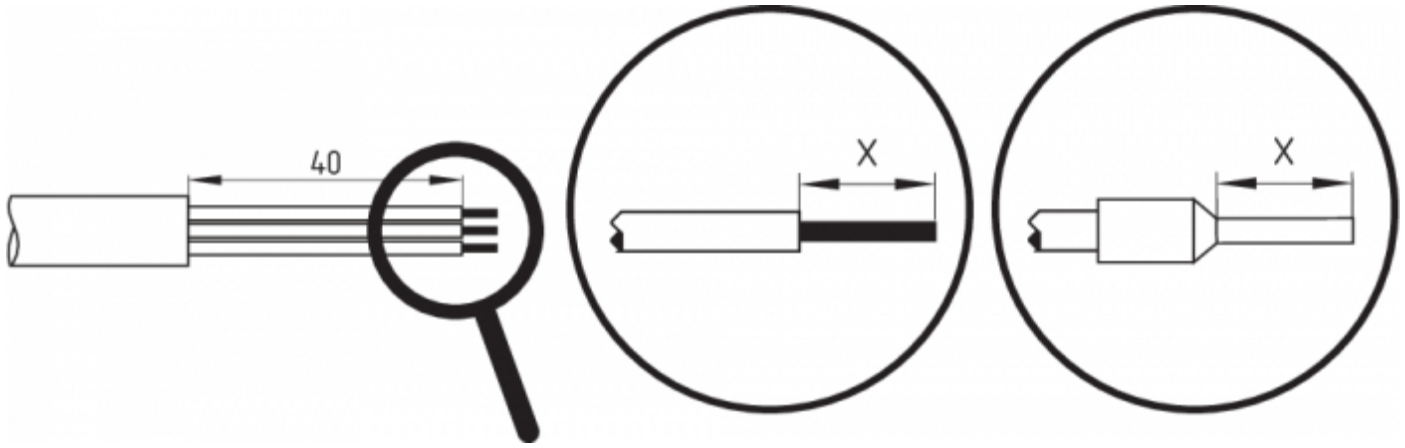




RF
RF M20 RF IP RF

RF x RF:

- RF (SK): 8 mm
- RF s RF CC RF 7.5 mm



4.3 -SD

24V X1, X2 1P2PW ...SD2P

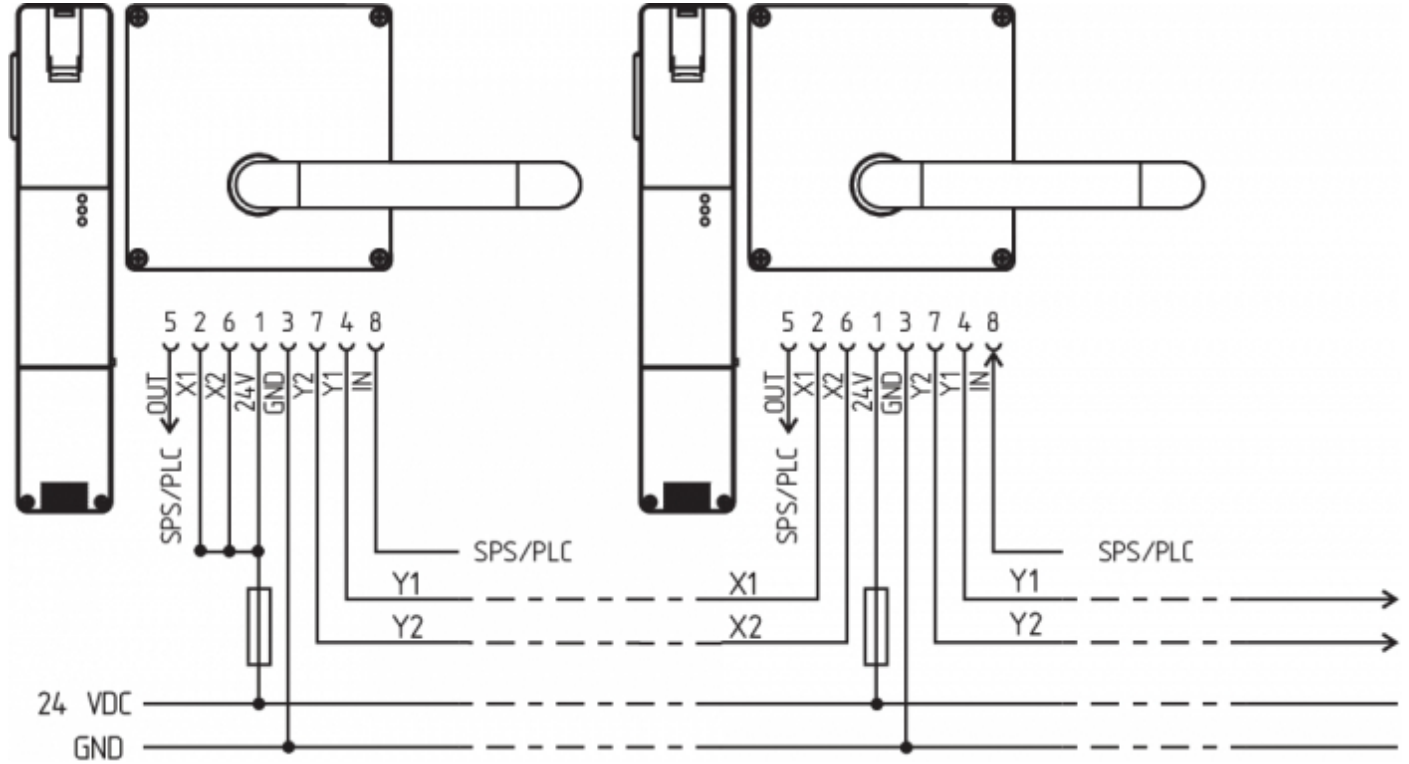
SD

SD PFB-SD-4M12-SD () PDM-SD-4CC-SD () (products.schmersal.co

4.4

1AZM201

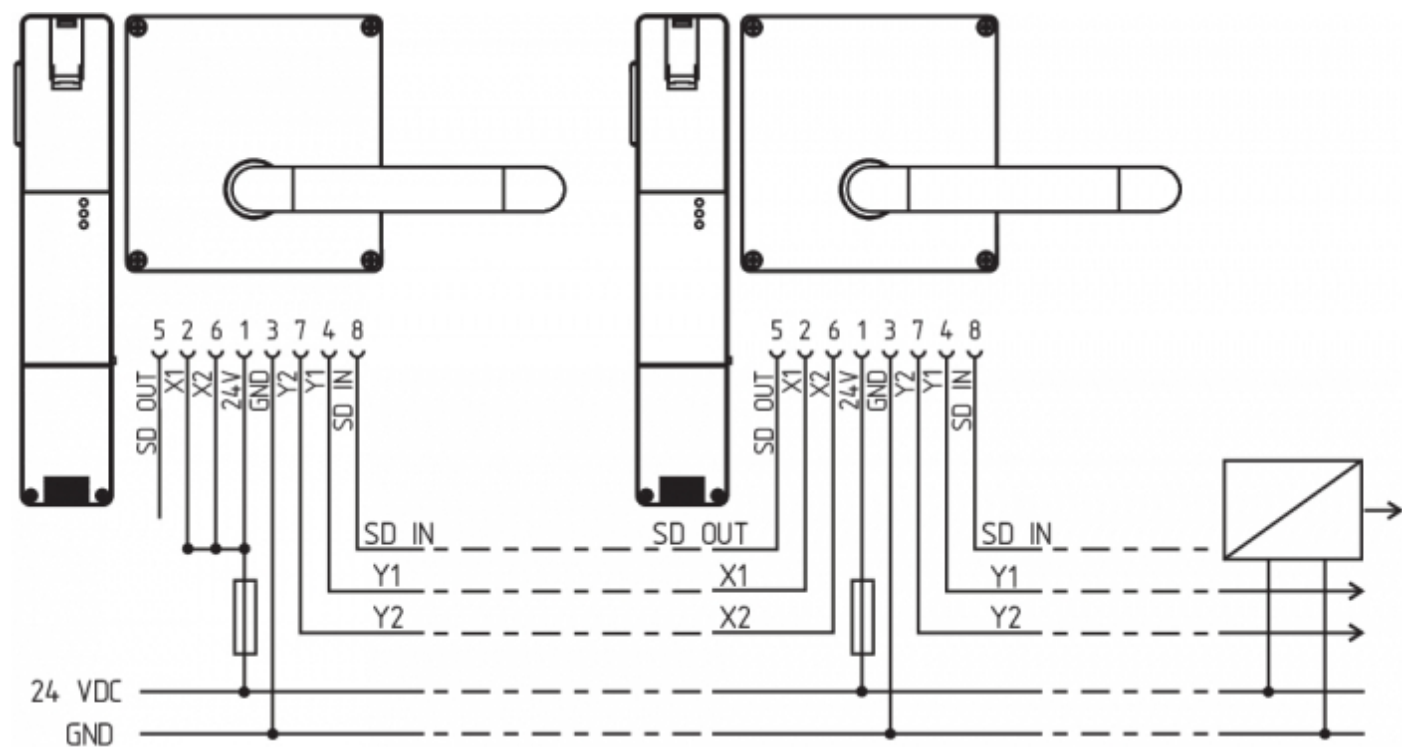
24V-X1-X2



Y1 Y2 = →

2AZM20131

(-SD) SD



Y1 □ Y2 = □□□□ → □□□□□□□□

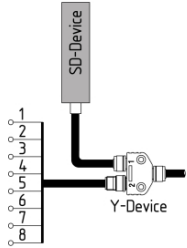
SD-IN □□□□□ □□□□□□

□□□□□□□□

□□□□□□□□		ST2,M12,8-□ □□□ □□□□□□		DIN 47100□□□ □□□□□□□□□□	EN 60947-5-2□□□	
	□□□□□□□□ □□□□□□□□					
24V	Ue		1	1	□	□
X1	□□□□ 1		2	2	□	□
GND	GND		3	5	□	□
Y1	□□□□ 1		4	7	□	□
OUT	□□□□	SD □□	5	9	□	□
X2	□□□□ 2		6	3	□□□	□□□
Y2	□□□□ 2		7	8	□	□
IN	□□□□□□	SD□□	8	4	□	□
	□□□□		-	6		

SD□□□□□□□□□□Y□□□□□□□□□□CSS-Y-8P Y□□□□□□□□.

Pin	Pin	Signal (2)	Color		
			EN 60947-5-2		
			DIN 47100		
A1	1	Ue	BN()	BN()	WH()
A1	2	Ue	WH()	WH()	BN()
A2	3	GND	BU()	BU()	GN()
A2	4	GND	BK()	BK()	YE()
Y1	5	Y1 1	GY()	GY()	GY()
Y2	6	Y2 2	VT()	PK()	PK()
IN	7	SD	RD()	VT()	BU()
OUT	8	SD	PK()	OR()	RD()



1.

24V 24V X1 X2 IN					24V 24V X1 X2 IN					1 2 3 4				
AZM201-.-.-1P2PW-.					AZM201-.-.-SD2P-.					AZM201-.-.-1P2PW-.				
GND		Y1	Y2	OUT	GND		Y1	Y2	OUT	5	6	7	8	9

1. 2. 3. 4.		1. 2. 3. 4.	
2,5 m		103011415	
5,0 m		103007358	
10,0 m		103007359	
15,0 m		103011414	

5

 1.

 2.

 3.

 4.

1.

2.

1. 103011415
2. 103007358
3. 103007359
4. 103011414

suffix -l1

10

6

 1.

 2.

 3.

 4.

6.1

AZM201IN(= 24V)AZM201IN(= 24 V)

6.2

AZM201.AZM201

B AZM201B,

6.3 LED

3LED

	ON
	(2: / LED)

6.4

PLC

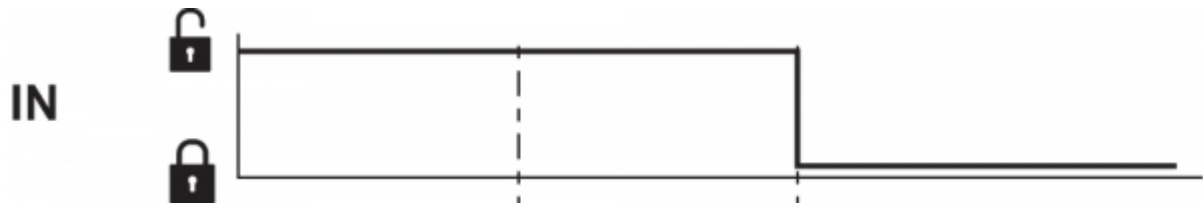
()



Y1Y2

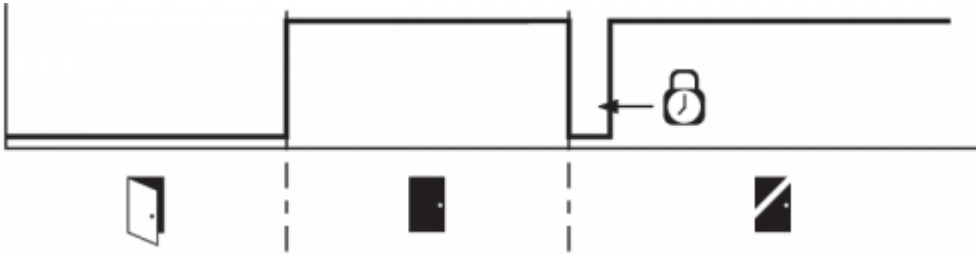
2

(...-1P2PW)
(:)



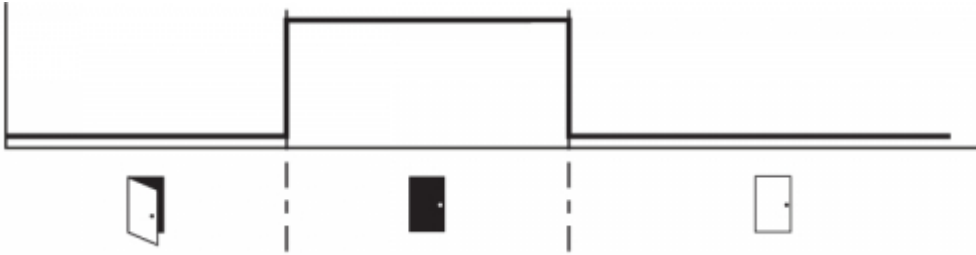
□□□□□□□□□□

OUT



□□□□□□□□□□

OUT



□□□□



□□□



□□□□



□□□□□



□□□□



□□□□□: 150 ... 250 ms, □□ 200 ms

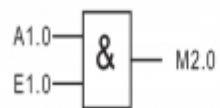
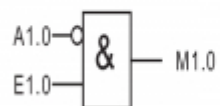
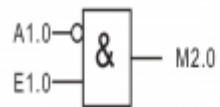
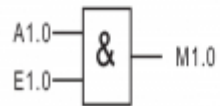
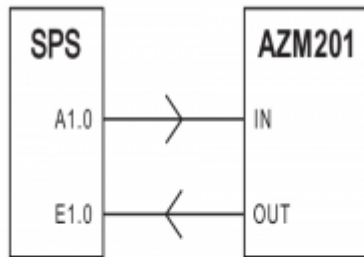


□□□□□□□□□□□□□□



□□□□□

□□□□(...-1P2PW)□□□



1:								
	IN		LED			Y1, Y2		OUT
						AZM201Z	AZM201B	-1P2PW
	24 V (0 V)	0 V (24 V)	On	Off	Off	0 V	0 V	0 V
	24 V	0 V	On	Off	Off	0 V	0 V	0 V
	24 V	0 V	On	Off		0 V	24 V	24 V
	0 V	24 V	On	Off		0 V	24 V	0 V
	0 V	24 V	On	Off	On	24 V	24 V	24 V
	0 V	24 V	On	Off	On	24 V ¹⁾	24 V ¹⁾	0 V
	0 V (24 V)	24 V (0 V)	On	Off ¹⁾	Off	0 V	0 V	0 V
I1/I2:								
			Off	On		0 V	0 V	0 V
I2:	()			Off	Off	0 V	0 V	0 V
1) 30 2)								

2: / LED			
()		OFF	
1	Y1	30	Y1
2	Y2	30	Y2
3		30	Y1/Y2
4		30	
5		0	
6		0	()
	/	0	/

6.5 SD

31 PROFIBUS SD-I-DP-V0-2 SD-I-U-... products.schmersal.com PLC PLC SD



Y1 Y2

()

30 (LED)

3: I/O
(Bit = 1)

0:		IN	Y1	Y1
1:	---		Y2	Y2
2:	---			
3:	---	---		
4:	---	X1 X2	---	
5:	---			
6:	---	1) 2)		---
7:		OFF		---

1) 30 ->

7

- 1.
- 2.
- 3.
- 4.
- 5.

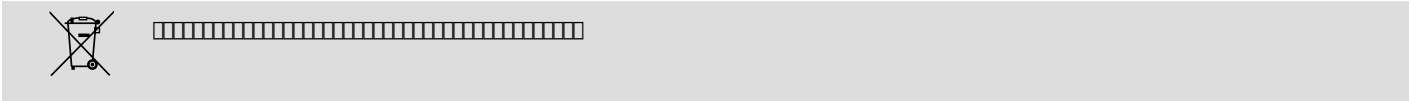


8

8.1

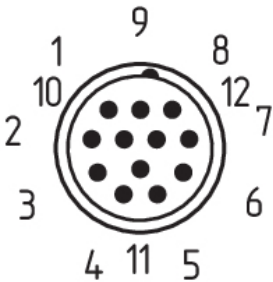
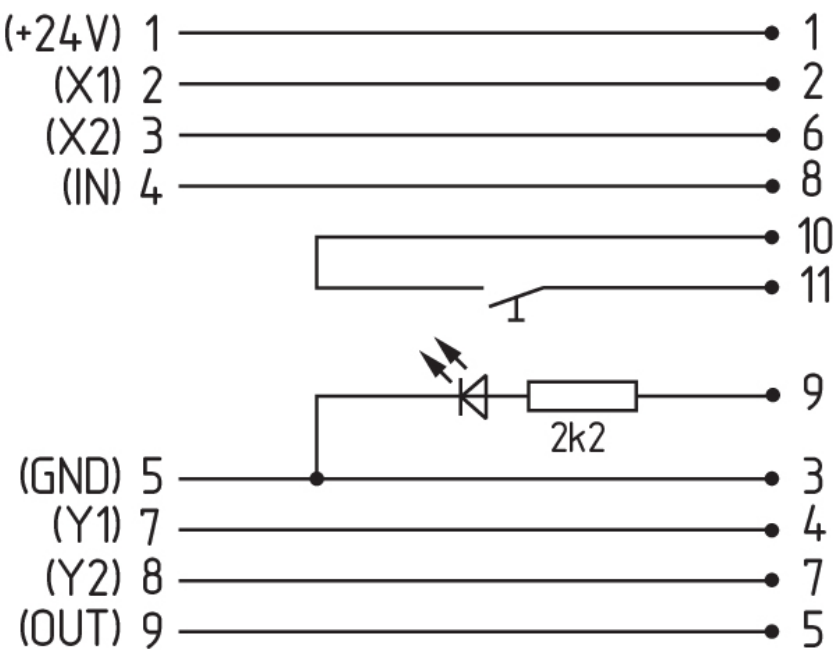


8.2



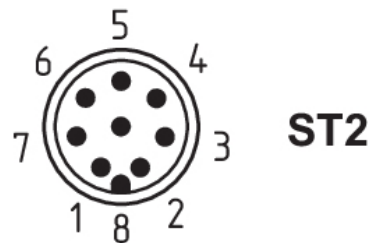
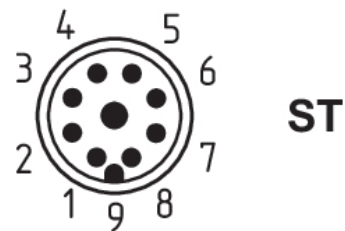
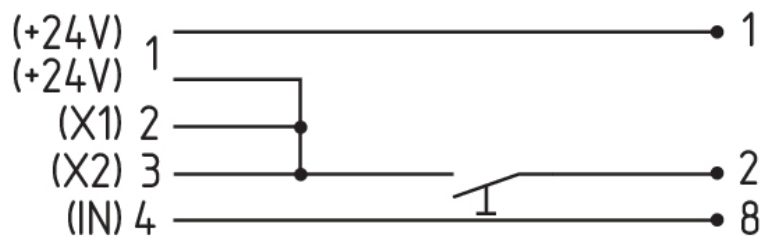
9 -

 -2965-1



 () IP67, M23, 12 - 12 x 0.75 mm ²	
	
5.0 m	101208520
10.0 m	103007354
20.0 m	101214418

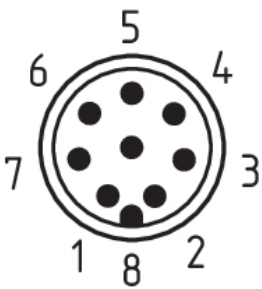
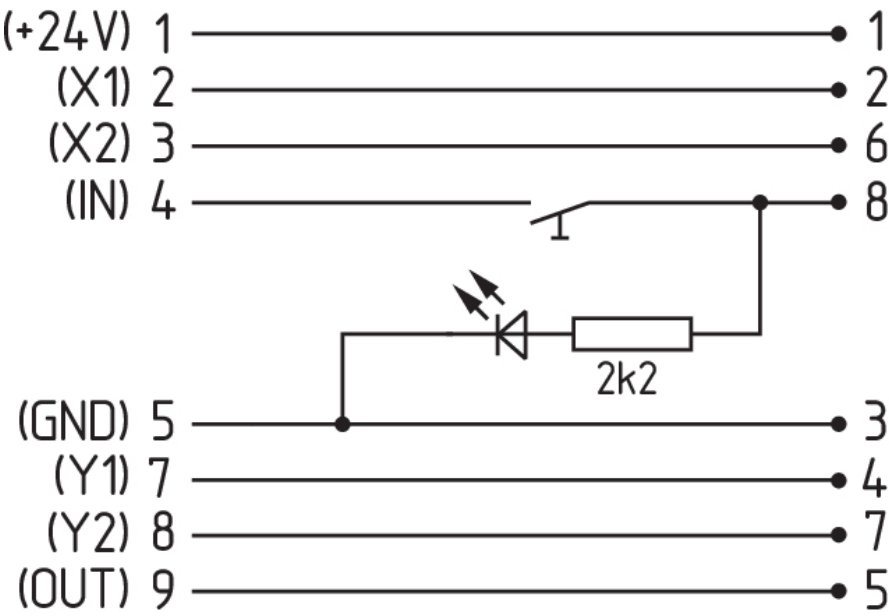
 -2965-2



IP67, M23, 8+1 - 9 x 0.75 mm ²	
5.0 m	101209959
10.0 m	101209958
15.0 m	103001384

IP67, M12, 8 - 8 x 0.25 mm ²	
2.5 m	103011415
5.0 m	103007358
10.0 m	103007359

-2965-3



IP67, M12, 8 - 8 x 0.25 mm ²	
2.5 m	103011415
5.0 m	103007358
10.0 m	103007359