



SSP

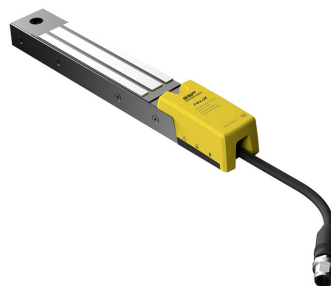
Safety System Products

HOLDX RL1-P12-W-B

Magnetic guard lock individual coding (reteachable), Pigtail M12 12-pin, 1200 N locking force

Your advantages

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we simplify safety

HOLDX RL1-P12-W-B

Ideal for large doors. Thanks to the locking force of **1200 N**, the **HOLDX RL** prevents doors from tearing open. With a slim width of only 35 mm, the guard locking is ideal for space-saving installation on aluminum profile systems. Like the HOLDX RS, the guard locking has also has a permanent magnet of 50 N, which prevents a door from opening.

General data

Type designation	RL1-P12-W-B
Item number	SP-X-71-001-23
Coding levels	Individually

Safety relevant data

Category (EN ISO 13849-1: 2015)	Cat.4
SIL (IEC 61508: 2010)	SIL3
- Hardware fault tolerance	HFT1
- PFHd	2,24 x 10 ⁻⁹
Service life (EN IEC 62061)	20 Years
Switching current per safety output max.	100 mA (DC-12/DC-13)

Safety data

Performance Level (EN ISO 13849-1: 2015)	PLe
SIL (EN IEC 62061: 2005 + A2: 2015)	SIL CL3

Environmental conditions

Max. storage temperature	-20 °C ... +70 °C
Max. operating temperature	-20 °C ... +55 °C

Electrical data

Supply voltage	24 VDC (+10/-15%)
Rated impulse withstand voltage U _{imp}	1 kV
Power consumption (incl. OSSD outputs)	17 W
Rated current (on 24 VDC)	645 mA



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No-load current I ₀	60 mA
Amount safety inputs	1 x 2-channels
Current consumption per input max.	2,75 mA
Current consumption input magnet ON	1,2 mA
Voltage drop safety output (U _d)	0,75 V
Amount OSSD safety output	1 x 2-channels
Safety output - output type	Transistor (PNP)
Residual current safety output (I _r)	0,5 mA
Load capacitive reactance safety output max.	20 nF
Amount diagnosis output	1
Diagnosis output- output type	Transistor (PNP)
Connection type	M12 12-pin, Pigtail 200 mm
Series connection for safe In- and Outputs	max. 30 process locks
Protection class power supply	III
Switching current per diagnosis output max.	100 mA
Design / Connections	1x Pigtail 12-pin
Risk time	75 ms ms

Mechanical data

Dimensions

Width	34 mm
Length	240 (without cabel) mm
Height	31 mm

Dimensions of anchor plate

Width of anchor plate	34,4 mm
Length of anchor plate	224,1 mm
Height of anchor plate	20.1 mm
Locking force electromagnet	600 N
Permanent magnet	50 N
Smart resting force	0 / 30 / 50 N
Weight process lock	725 g
Weight anchor plate	475 g
Torque (mounting screw) process lock	6 Nm

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Torque (mounting screw) anchor plate	6 Nm
Mounting	Screwing with raised head screw M6 Torx with pin
Material housing lock	PBT GF30, Aluminium eloxated black, TPE, PC
Shock resistance	30 g / 11 ms
Vibration resistance	1 g, 5-150 Hz

Switching distance according to DIN EN 60947-5-3:2014-12

Assured switching distance ON S(ao)	6 mm
Assured switching distance OFF S(ar)	18 mm
Typical switching distance S(n)	11 mm
Repeat accuracy R switching distance	<0,5 mm
Hysteresis	2 mm

Generall periods

Readiness delay t(v)	5000 ms
Start delay acuator t(on)	75 ms

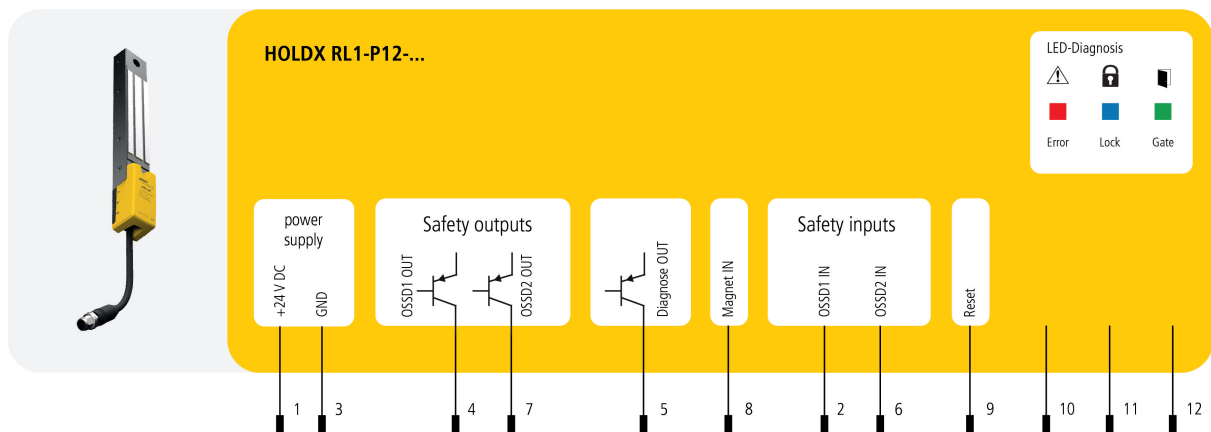
Safety function times

Switch-off reaction time inputs	max.3 ms
Switch-off reaction time anchor plate - Outputs t(off)	max. 75 ms
Test impulse length OSSD Sicherheitsausgänge	0.3 ms

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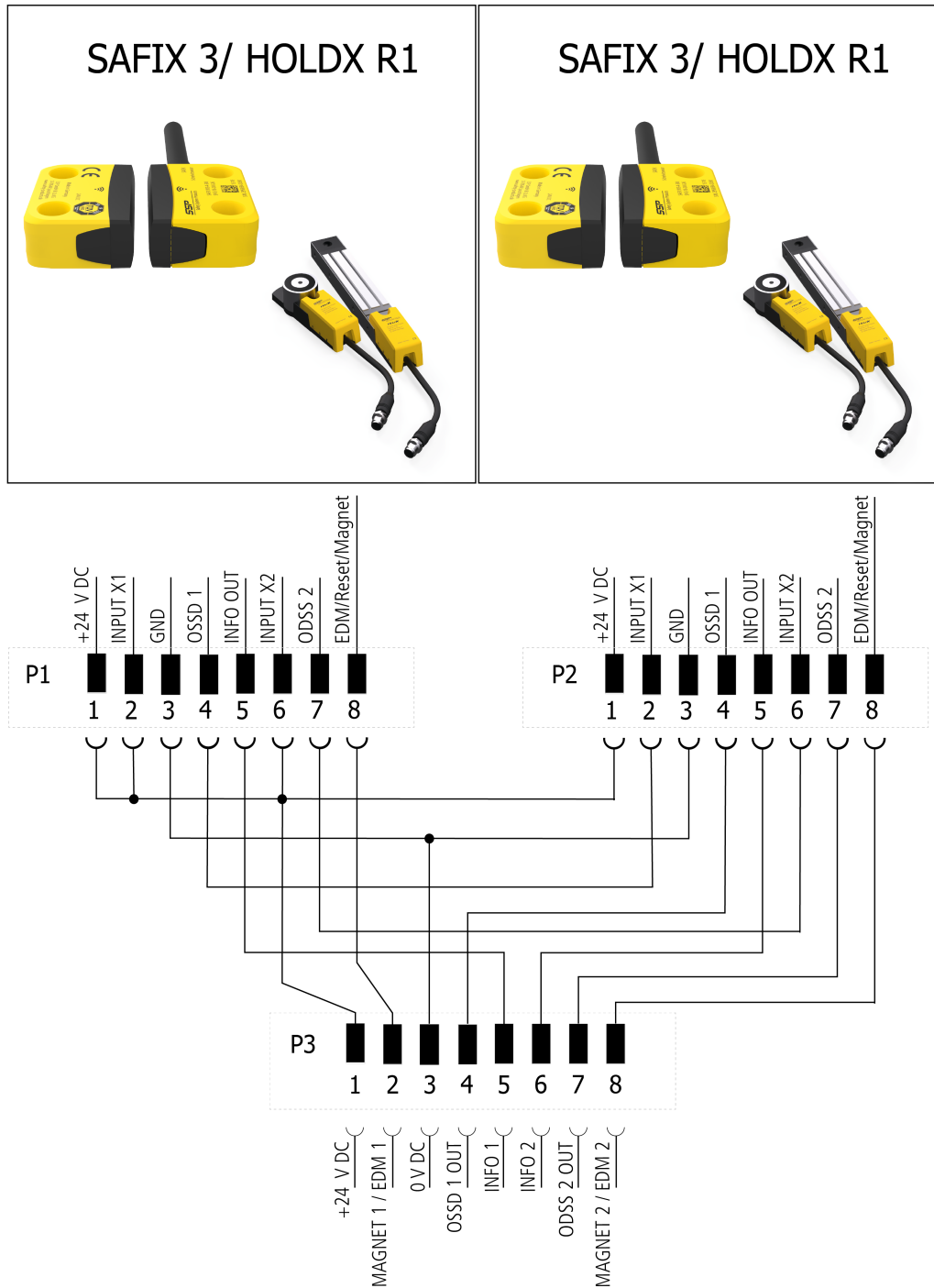
Electrical drawings

Connection drawing



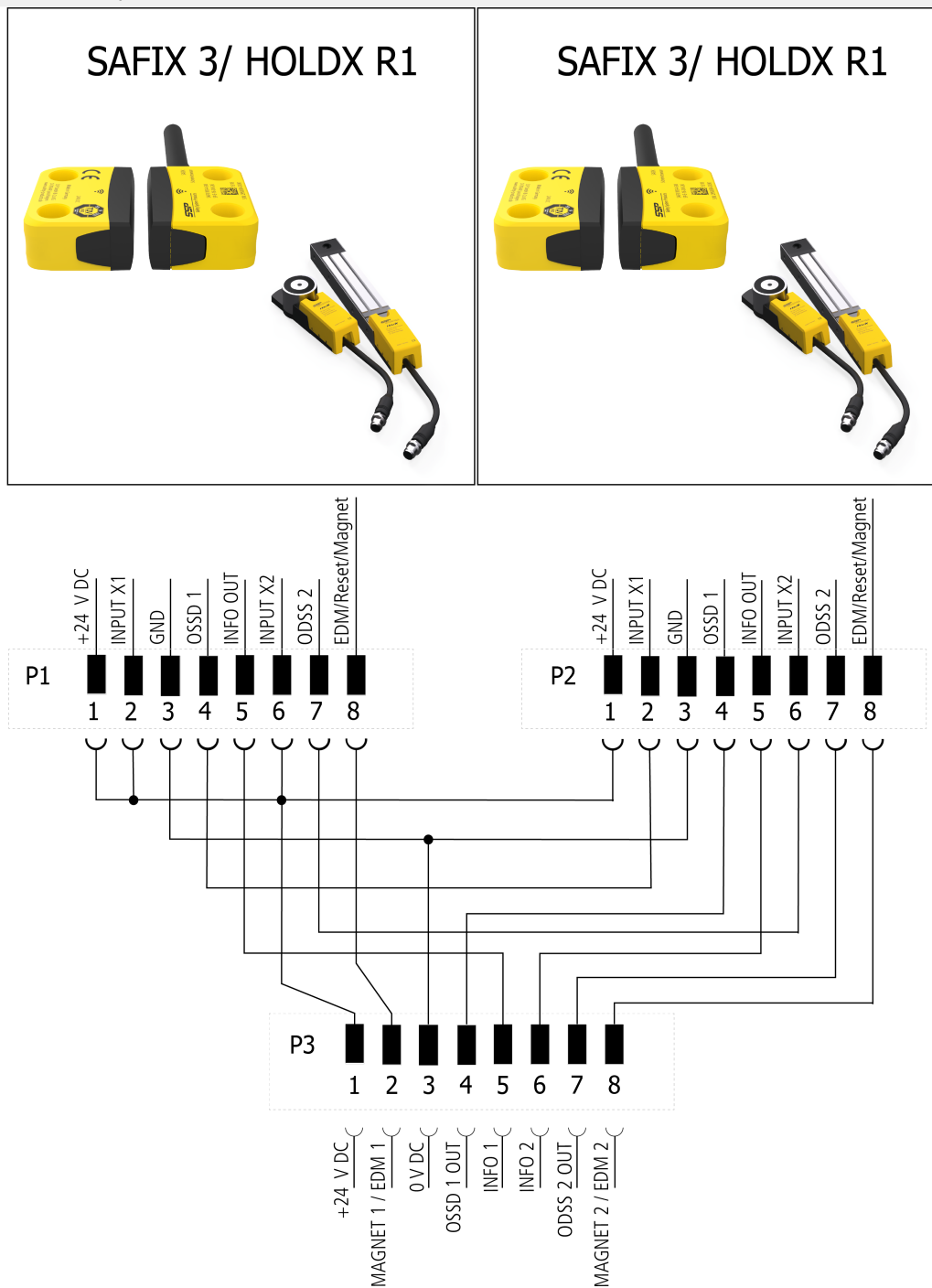
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Connection example 1



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Connection example 2



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Drawings

Approach

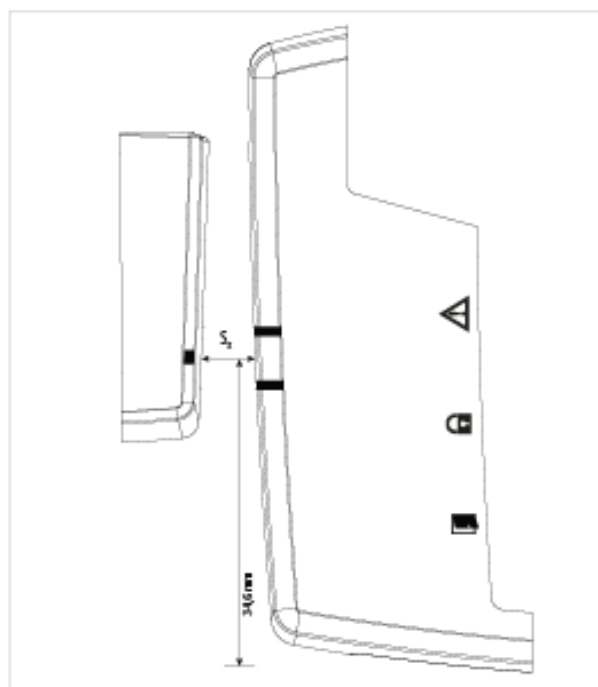
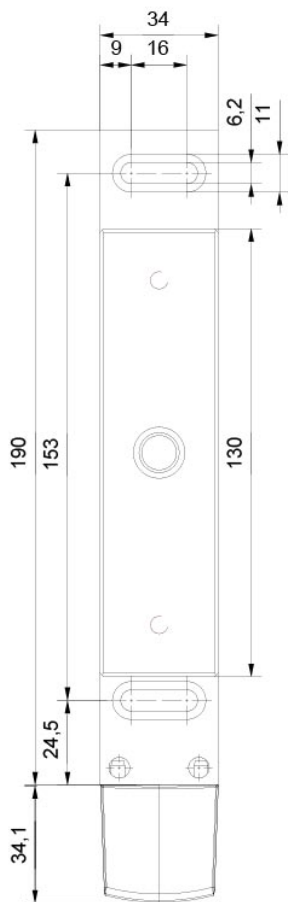


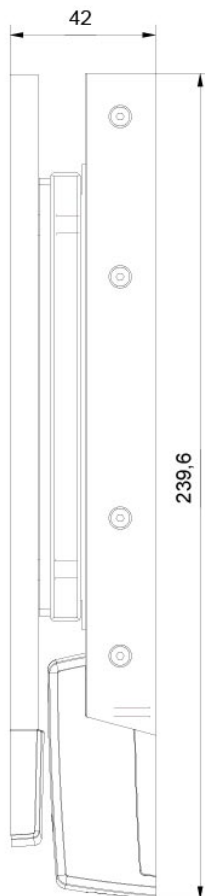
Abb.11: S_2 entspricht S_{20} , S_{21} , S_{22}

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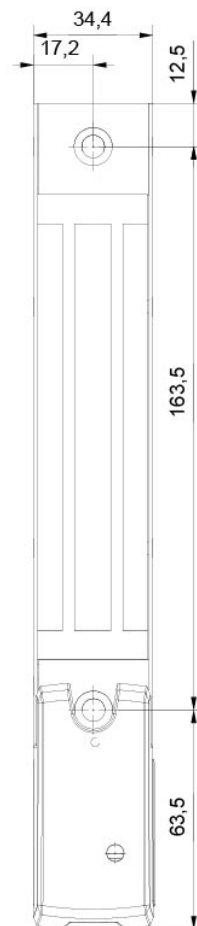
Dimensions



Ankerplatte



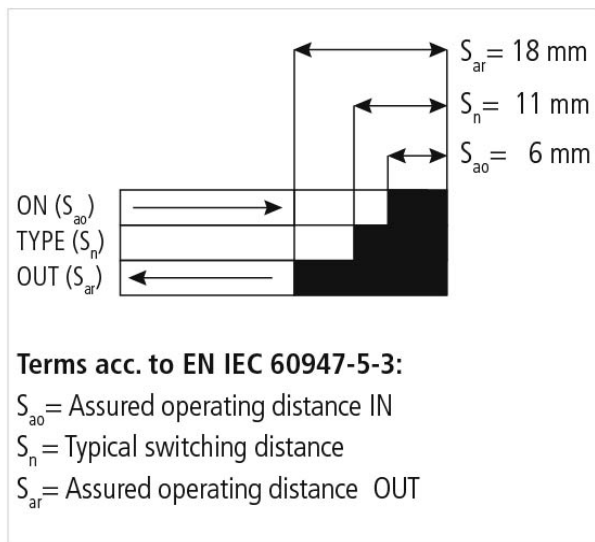
Ankerplatte + Magneteinheit



Magneteinheit

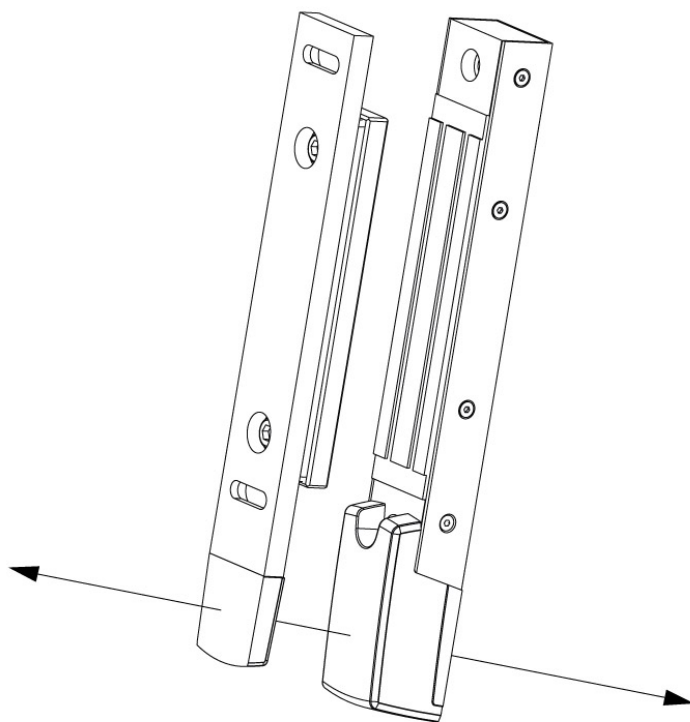
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Switching gap



Switching distance

Approach direction



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Assembly

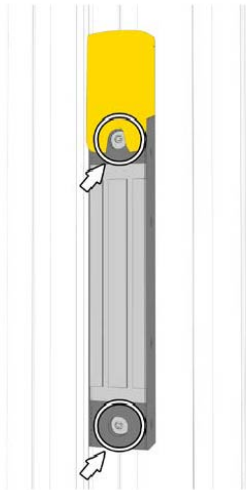


Fig.4: Attach the process guard locking to the profile at the desired height and tighten the Torx screws M6 x 25 mm.

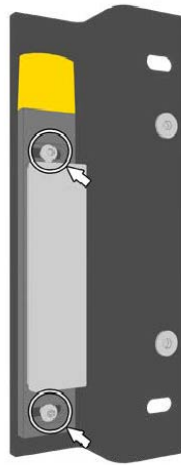


Fig.5: Attach the anchor plate to the mounting plate and tighten the Torx screws M6 x 8 mm.

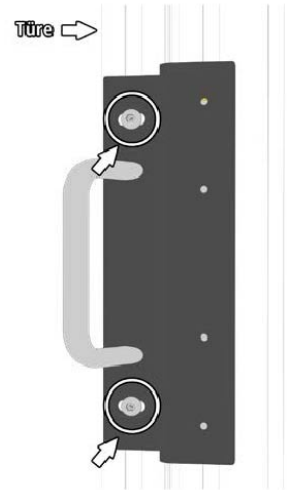


Fig.6: Attach the mounting plate with the anchor plate to the profile and align with the process guard locking. Tighten the Torx screws M8 x 12 mm.

Assembly 2

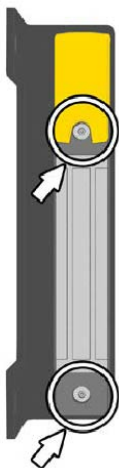


Fig.7: Attach the process guard locking to the mounting plate and tighten the Torx screws M6 x 25 mm.

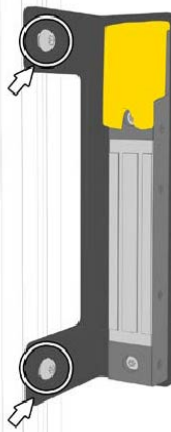


Fig.8: Attach the mounting plate with the process guard locking to the profile and tighten the Torx screws M8 x 12 mm.

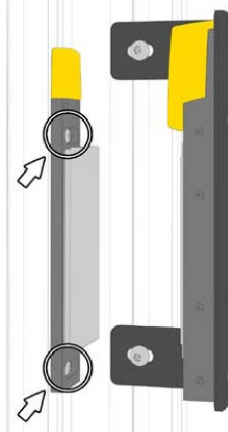


Fig.9: Attach the anchor plate to the profile of the sliding door and align it with the process guard locking. Tighten the Torx screws M6 x 10 mm.

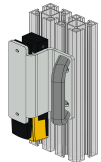
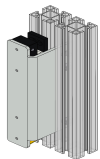
Equipment

Accessories

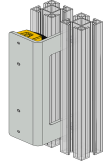
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M12-female connector, 8 pin, 10 m	C8D10	1021397	
M12-female connector, 8 pin, 15 m	C8D15	1021398	
M12-female connector, 8 pin, 25 m	C8D25	1021390	
M12-female connector, 8 pin, 40 m	C8D40	1021389	
M12-female connector, 8 pin, 5 m	C8D5	1021396	

Safety switches

Free software for magnetic guard lock HOLDX R	HOLDX Manager		
Mounting fitting HOLDX RL for wing doors with handle	HOLDX RL-Z-MF1	1027875	
Mounting fitting HOLDX RL for wing doors	HOLDX RL-Z-MF2	1027883	

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Mounting fitting HOLDX RL for sliding doors	HOLDX RL-Z-MS1	1027876	
Anchorplate with RFID tag and with 50 N permanent magnet	HOLDX RS-A1	1027848	
Anchorplate with RFID tag without additional permanent magnet	HOLDX RS-A2	1027849	
Passive distributor	XCONN P6-M12-10m	1027828	
Passive distributor	XCONN P6-M12-M23	1027825	
Y distributor	XCONN Y2-M12	1022403	
Connection module for EDI D1B	XCONN Y3-M12	1022407	
Connection module EDI C7	XCONN Y4-M12	1022408	
Safe control technology			

HOLDX RL1-P12-W-B

	MOSAIC M1	1019811	
Standard safety relay 1 safety function	S2 series	1019455	
Wireless Safety			
Safety Simplifier for HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q 2A0-Q3C0-Q4I0-W06	1029203	
Safety Simplifier for two HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q 2I0-Q3C0-Q4I0-W10	1029207	
Safety Simplifier for HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0- Q2A0-Q3C0-Q4I0-W07	1044508	
Safety Simplifier for two HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0- Q2I0-Q3C0-Q4I0-W11	1044509	
Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1 A0-Q2A0-Q3C0-Q4I0-W08	1044603	
Safety Simplifier for two HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1 A0-Q2I0-Q3C0-Q4I0-W12	1029209	

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Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-K4-Q1	1044507
	A0-Q2A0-Q3C0-Q4I0-W09	



Safety Simplifier for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K4-Q1	1044490
	A0-Q2I0-Q3C0-Q4I0-W13	



Safety Simplifier Standard Module wireless passive distributor	S16LDRB-H10-Q1A0-Q2A0-Q	1030121
	3C0-Q4A0-Q5U0-Q6U0-Q7U	
	0-Q8U0-W36	



Passive distributor	XCONN P6-M12-5m	1027824
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Y-distributor	XCONN Y1-M12	1027826
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Downloads

- Software Gateway
- Product line
- Catalog
- Operating manual
- Certificate UL
- Certificate
- SISTEMA - Data V 4.1
- EPLAN-Data
- CAD Data