



Safety System Products

HOLDX RS1-P8-W-B

Magnetic guard lock individual, reteachable coding, Pigtail M12 8-pin, 600 N locking force

Your advantages

- PLe according to EN 13849-1
- High Coded according to EN 14119
- From little windows up to big safety doors
- Shortest commisioning time
- Pigtail connection reduces cabling effort
- Less down- and setup time, due to maintenance Monitoring
- High tolerance for door offsets

To the downloads ►

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Safety System Products

HOLDX RS1-P8-W-B

In its small and compact design, the**HOLDX RS** enables a locking force of **600 N**. In addition to the holding force of the electromagnet, the movable anchor plate has a 50 N permanent magnet that prevents a door from springing open immediately. The integrated RFID safety sensor meets the highest**performance level PLeaccording to EN ISO 13849-1:2016**. An integrated**Bluetooth interface** and the extended LED diagnostics enable smart operation as well as fast diagnostics.

HOLDX R User TutorialsOur HOLDX R User Tutorials are now available as a playlist on YouTube! Our product manager Rico Czernig explains topics like the subsequent magnet calibration or diagnostic data. Have a look at the playlist for HOLDX RL and RS, as well as for our HOLDX Manager!

General data	
Type designation	RS1-P8-W-B
Item number	1027830
Item number (old)	SP-X-71-001-05
Coding levels	Individually
Safety relevant data	
Category (EN ISO 13849-1: 2015)	Cat.4
SIL (IEC 61508: 2010)	SIL3
- Hardware fault tolerance	HFT1
Service life (EN IEC 62061)	20 Years
- PFHd	2,24 x 10□⁹
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

Safety System Products

HOLDX RS1-P8-W-B

Environmental conditions	
Max. storage temperature	-25... + 55°C °C
Max. operating temperature	-25... + 55°C °C

Electrical data	
Supply voltage	24 VDC (+10/-15%)
Power consumption (incl. OSSD outputs	16 W
Rated current (on 24 VDC)	600 mA
No-load current I0	60 mA
Amount safety inputs	1x 2-channels
Current consumption per input max.	2,75 mA
Current consumption input magnet ON	1,2 mA
Voltage drop safety output (Ud)	0,75 V
Amount OSSD safety output	1x 2-channels
Safety output - output type	Transistor (PNP)
Residual current safety output (Ir)	0,5 mA
Load capacitive reactance safety output max.	20 nF
Amount diagnosis output	1
Diagnosis output- output type	Transistor (PNP)
Connection type	M12 8-pin, Pigtail 200 mm
Switching current per diagnosis output max.	100 mA
Design / Connections	1x Pigtail 8-pin
Bluetooth	□
Risk time	75 ms ms

Mechanical data	
Dimensions	
Width	45 (35) mm
Length	128,6 (without cabel) mm
Height	33,5 mm
Dimensions of anchor plate	
Width of anchor plate	45 (35) mm

Safety System Products

HOLDX RS1-P8-W-B

Length of anchor plate	108,2 mm
Height of anchor plate	17,5 mm
Locking force electromagnet	600 N
Permanent magnet	50 N
Smart resting force	0/ 30 N/ 50 N
Weight process lock	375 g
Weight anchor plate	125 g
Torque (mounting screw) process lock	6 Nm
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
Readiness delay t(v)	5000 ms
Start delay acctuator 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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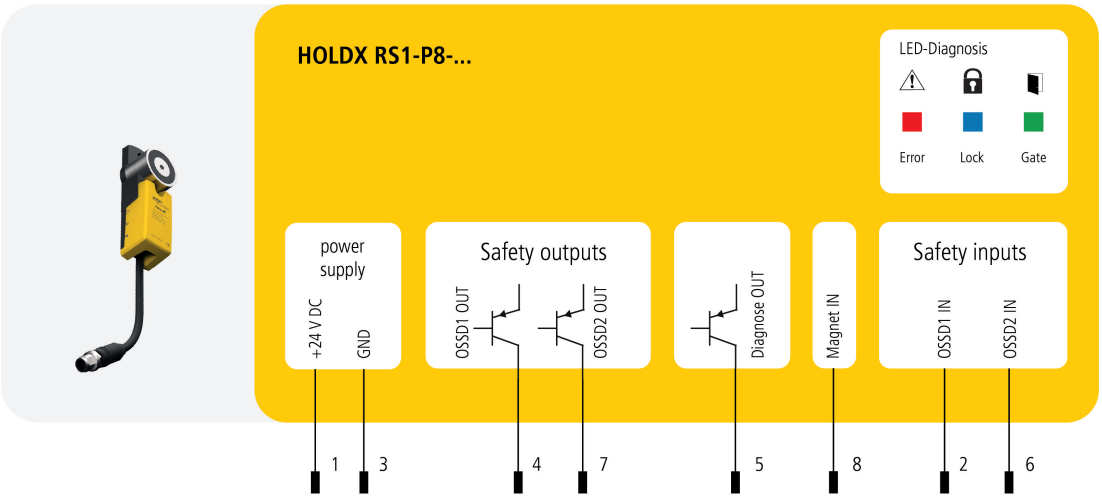
Electrical drawings

Connection drawing



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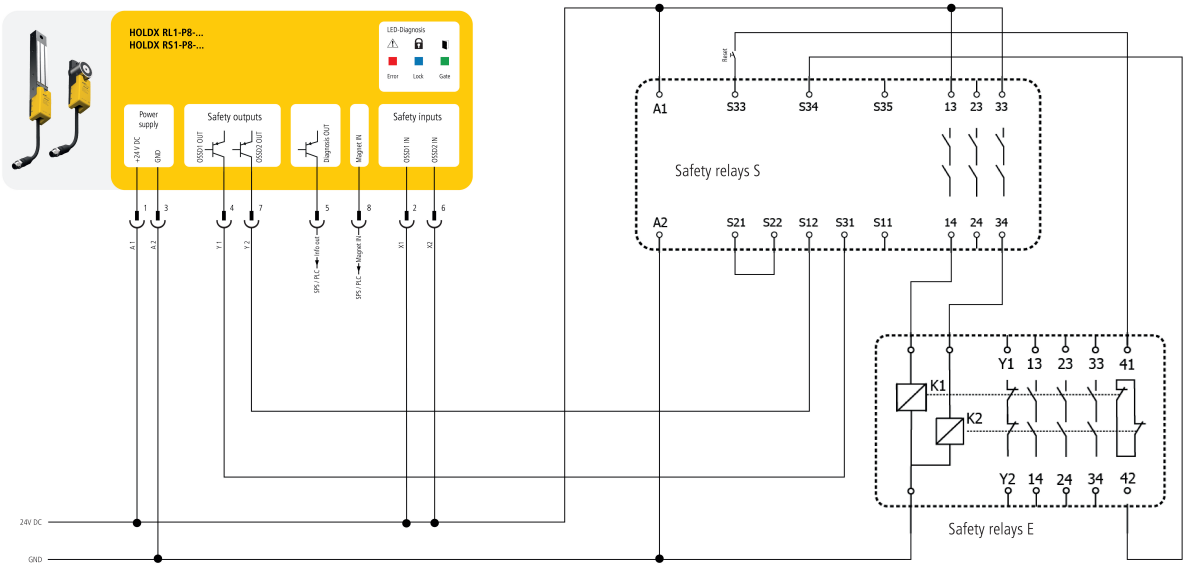
Connection example 1



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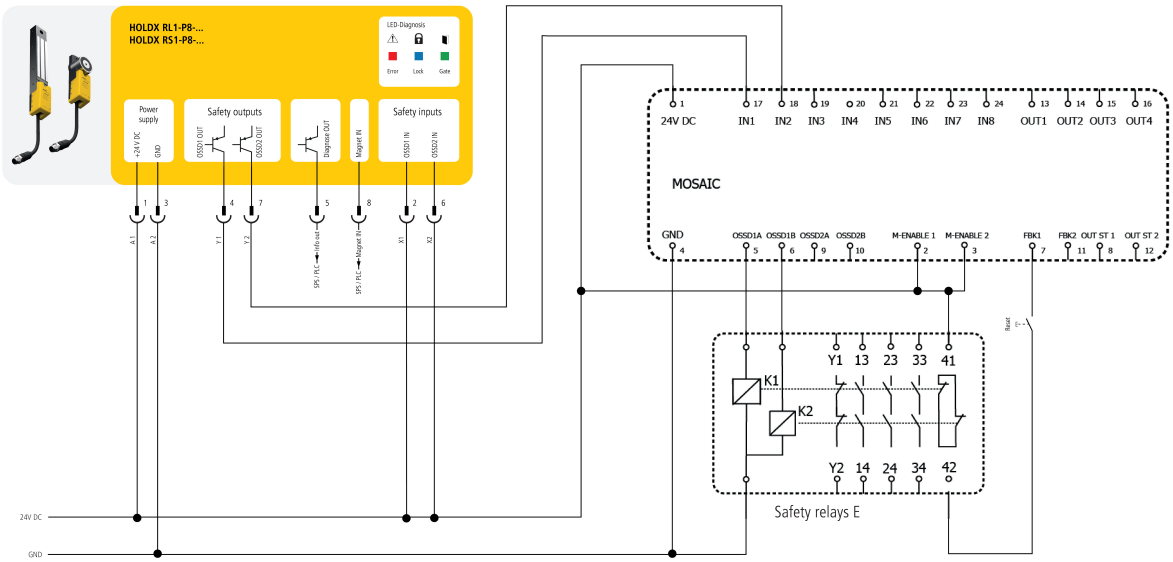
Connection example 2



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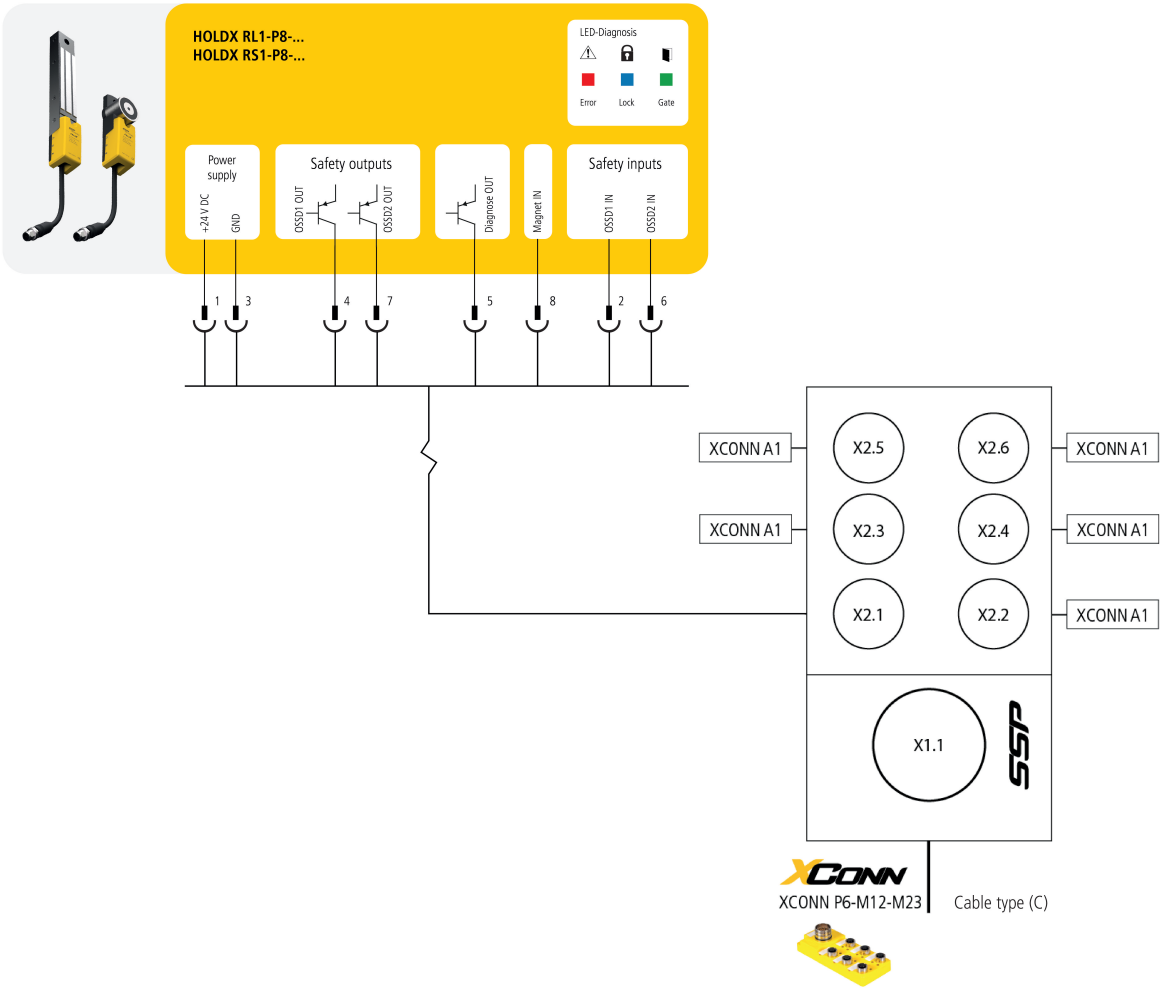
Connection example 3



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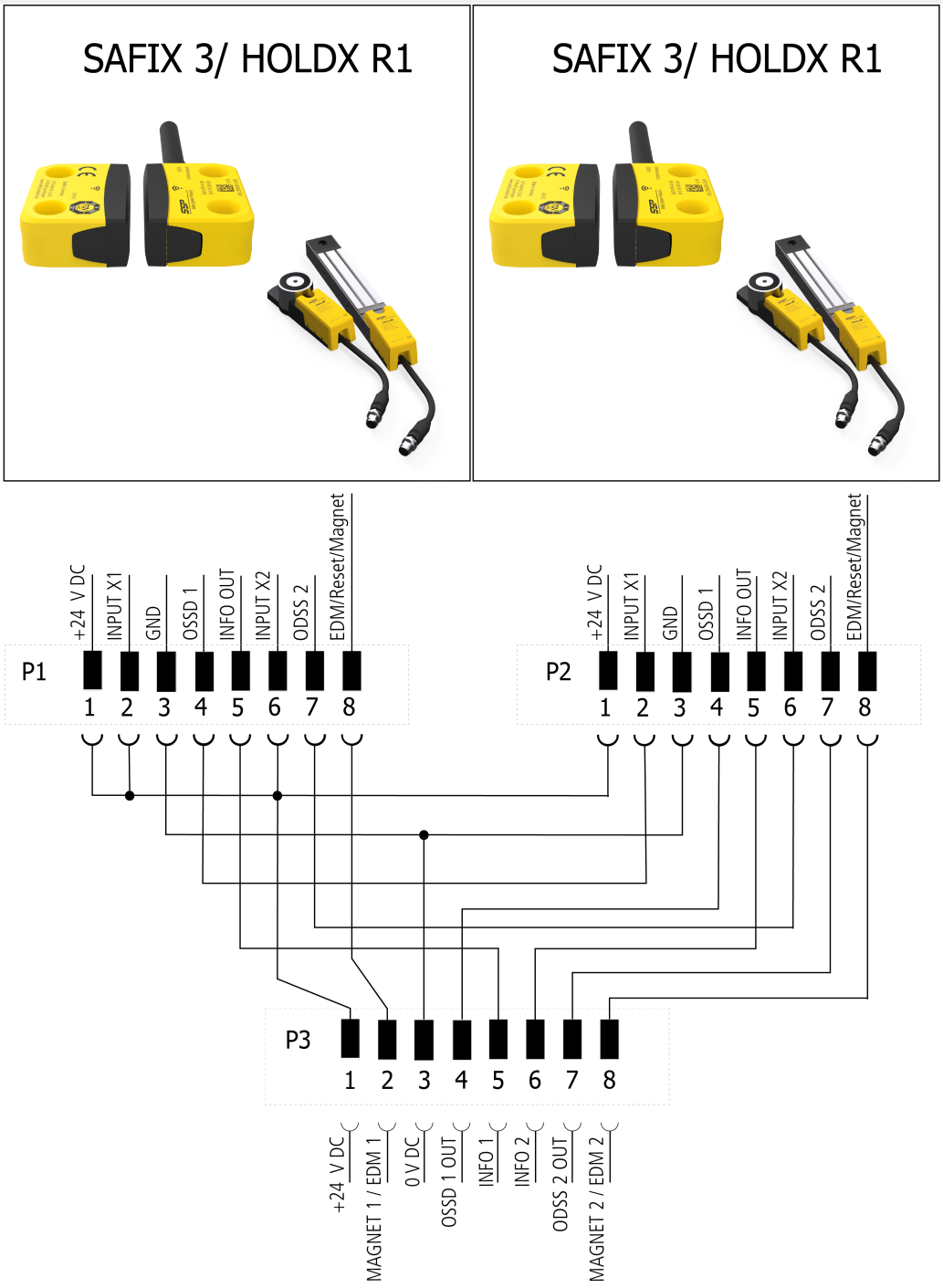
Connection example 4



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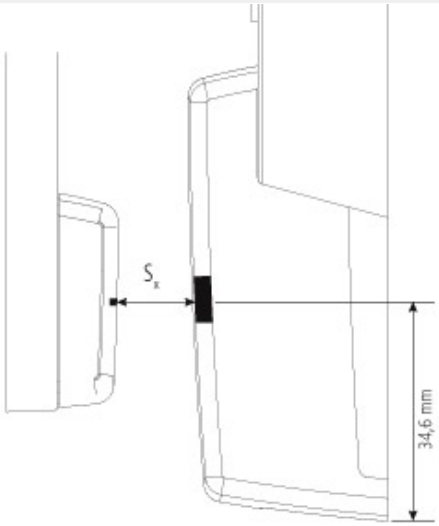
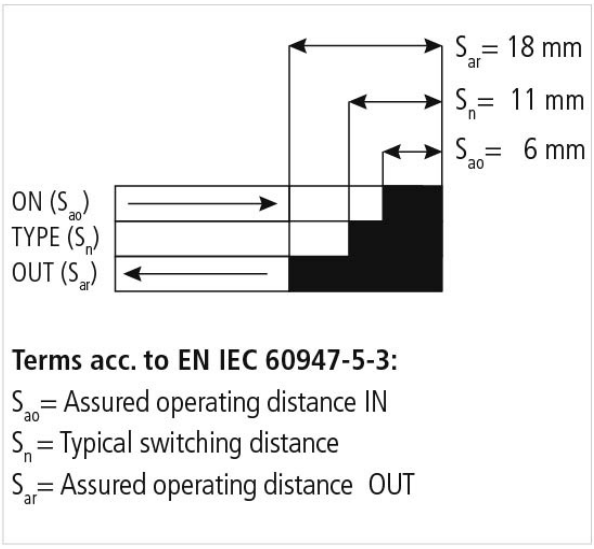
HOLDX RS1-P8-W-B

Drawings

Approach



Switching gap



Switching distance

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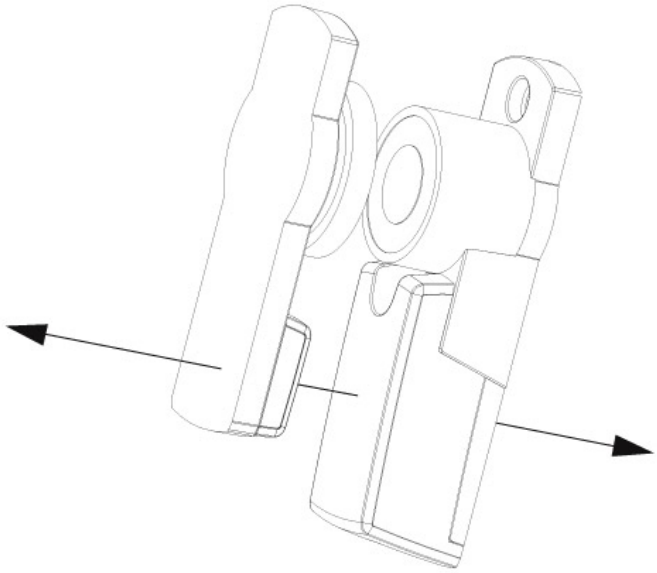
Approach direction



Assembly

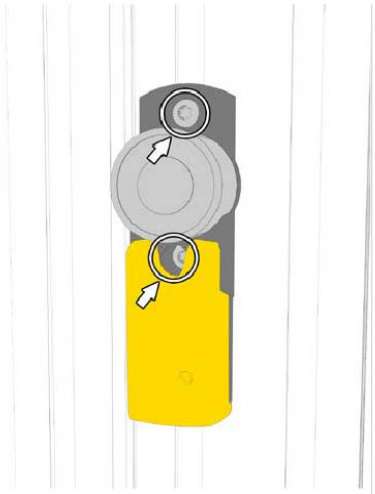


Fig.4: Attach the process guard locking to the profile at the desired height and tighten the Torx screws M6 x 25 mm.

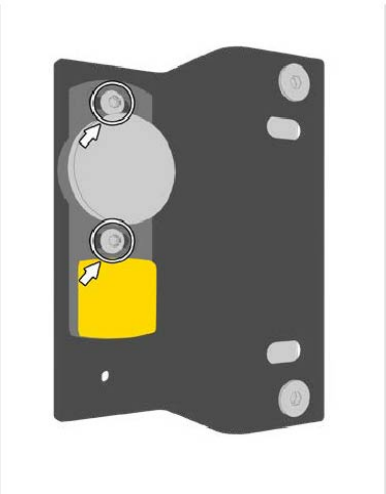


Fig.5: Attach the anchor plate to the mounting plate and tighten the Torx screws M6 x 8 mm.

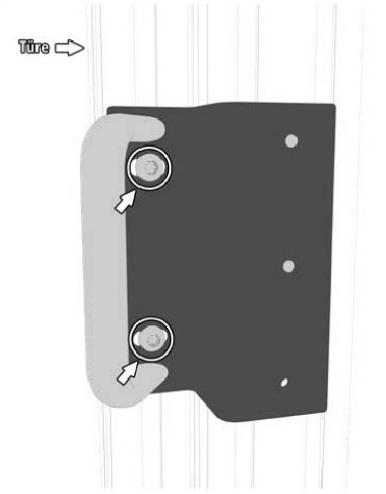


Fig.6: Attach the mounting plate with the anchor plate to the profile and align with the process guard locking. Tighten the Torx screws M8 x 12 mm.

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Assembly 2

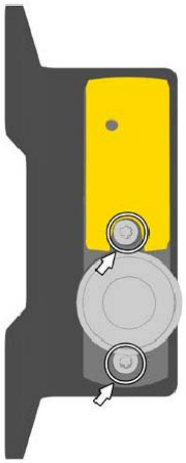


Fig.7: Attach the process guard locking to the mounting plate and tighten the Torx screws M6 x 25 mm.

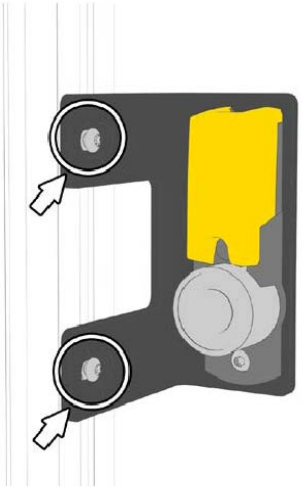


Fig.8: Attach the mounting plate with the process guard locking to the profile and tighten the Torx screws M8 x 12 mm.

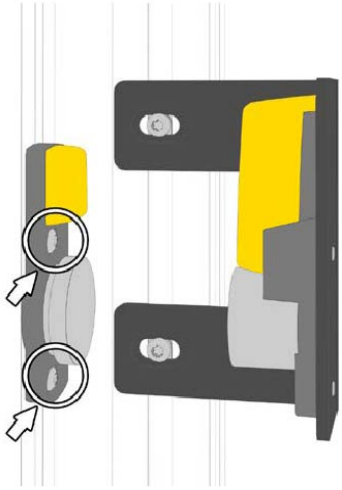


Fig.9: Attach the anchor plate to the profile of the sliding door and align it with the process guard locking. Tighten the Torx screws M6 x 10 mm.

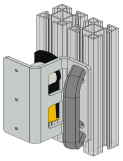
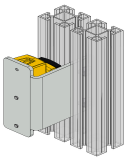
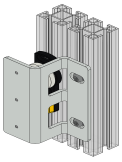
Equipment

Accessories

M12-connection cable, 8-pin, 10 m	C8D10	1021397	
M12-connection cable, 8-pin, 15 m	C8D15	1021398	
M12-connection cable, 8-pin, 25 m	C8D25	1021390	
M12-connection cable, 8-pin, 40 m	C8D40	1021389	

Safety System Products

HOLDX RS1-P8-W-B

M12-connection cable, 8-pin, 5 m	C8D5	1021396	
Safety switches			
Free software for magnetic guard lock HOLDX R	HOLDX Manager		
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	
Mounting fitting HOLDX RS for wing doors with handle	HOLDX RS-Z-MF1	1027877	
Mounting fitting HOLDX RS for wing doors incl. screws	HOLDX RS-Z-MF2	1027882	
mounting bracket for HOLDX RS, for hinged doors mouning on the inside	HOLDX RS-Z-MF3	1027884	
Mounting fitting HOLDX RS for sliding doors	HOLDX RS-Z-MS1	1027878	

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HOLDX RS1-P8-W-B

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			
	MOSAIC M1	1019811	
Standard safety relay 1 safety function	S2 series	1019455	
Wireless Safety			

Safety System Products

HOLDX RS1-P8-W-B

Safety Simplifier | for HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4I0-W06	1029203	
Safety Simplifier | for two HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q2I0-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-Q1A0-Q2A0-Q3C0-Q4I0-W08	1044603	
Safety Simplifier | for HOLDX R1	S14LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2A0-Q3C0-Q4I0-W09	1044507	
Safety Simplifier | for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2I0-Q3C0-Q4I0-W13	1044490	
Safety Simplifier Standard Module wireless passive distributor	S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36	1030121	

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HOLDX RS1-P8-W-B

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

Downloads

- Operating manual
- Software Gateway
- CAD Data
- Product line
- Catalog
- Catalog packaging systems
- Certificate UL
- Certificate
- SISTEMA - Data V 4.1
- EPLAN-Data
- CAD Data
- Function block OMRON PLC
- HOLDX R1 Software Gateway