



SSP

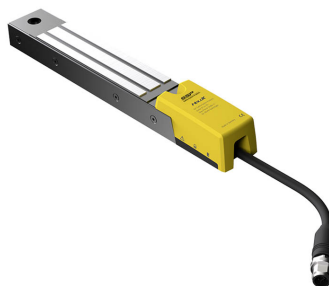
Safety System Products

HOLDX RL1-P12-S-B

Magnetic guard lock standard coding, Pigtail M12 12-pin, 1200 N locking force

Your advantages

To the downloads ►



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Safety System Products

HOLDX RL1-P12-S-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-S-B
Item number	SP-X-71-001-22
Coding levels	Standard

Safety relevant data

Category (EN ISO 13849-1: 2015)	Cat.4
SIL (IEC 61508: 2010)	SIL3
- Hardware fault tolerance	HFT1
- PFHd	$2,24 \times 10^{-9}$
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 Uimp	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

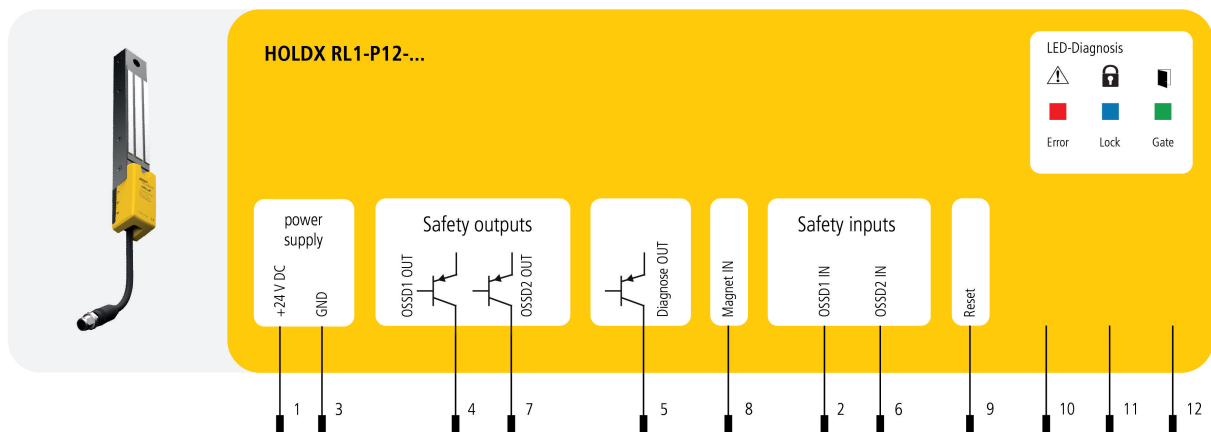
Safety function times

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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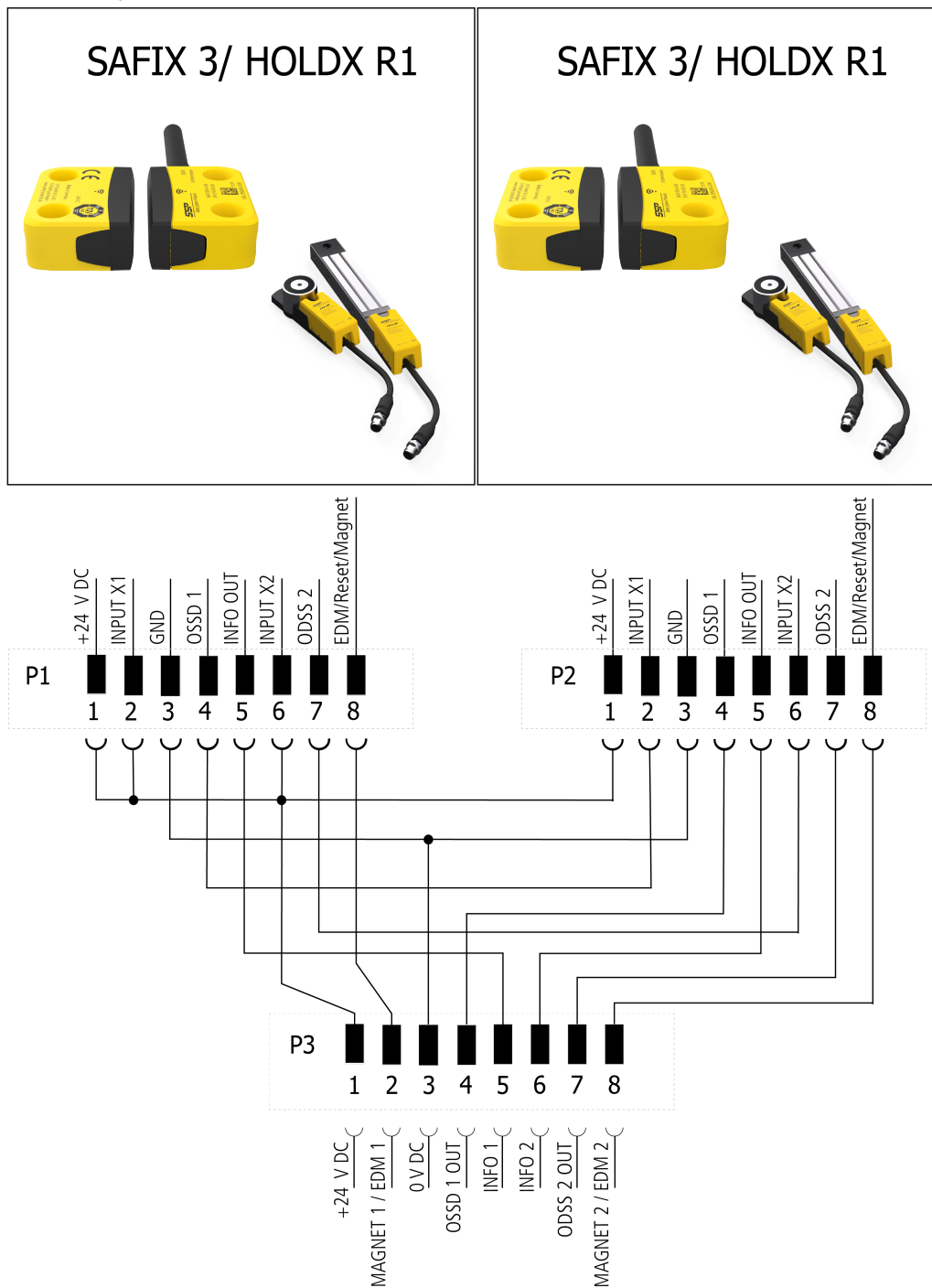
Electrical drawings

Connection drawing



HOLDX RL1-P12-S-B

Connection example 1



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Drawings

Approach

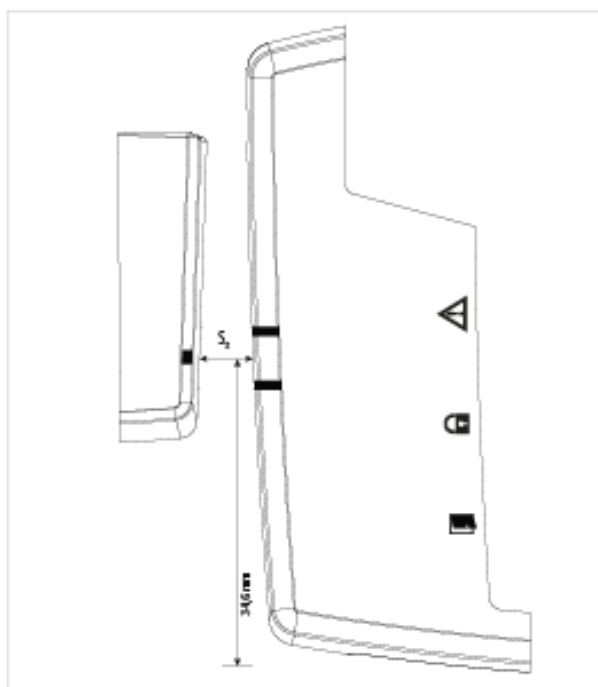
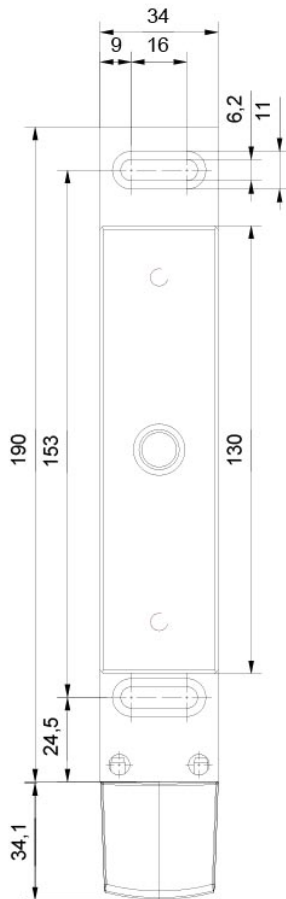


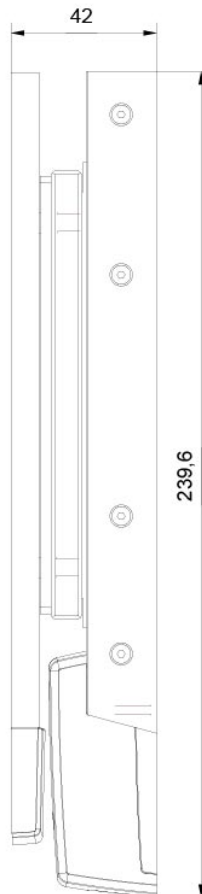
Abb.11: S_2 entspricht S_{10} , S_9 , S_{11}

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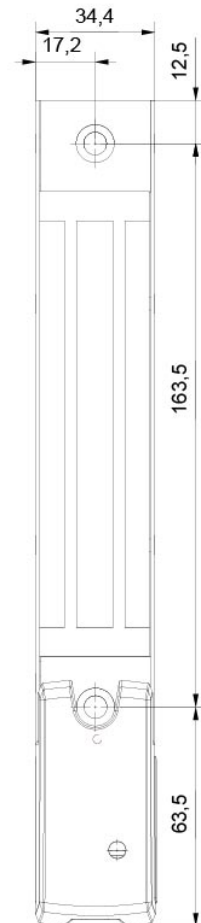
Dimensions



Ankerplatte



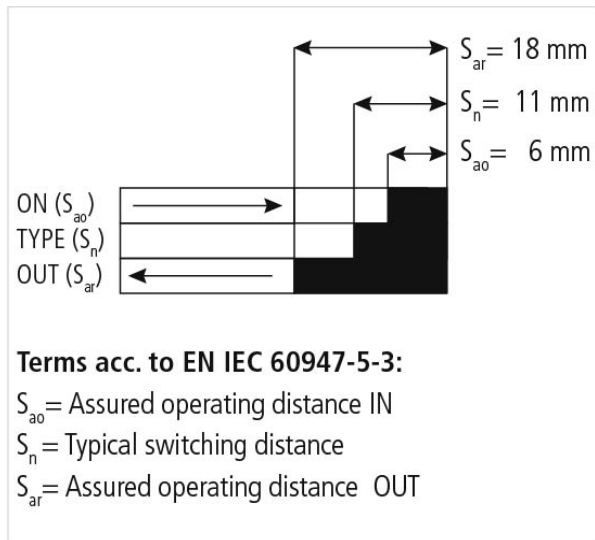
Ankerplatte + Magneteinheit



Magneteinheit

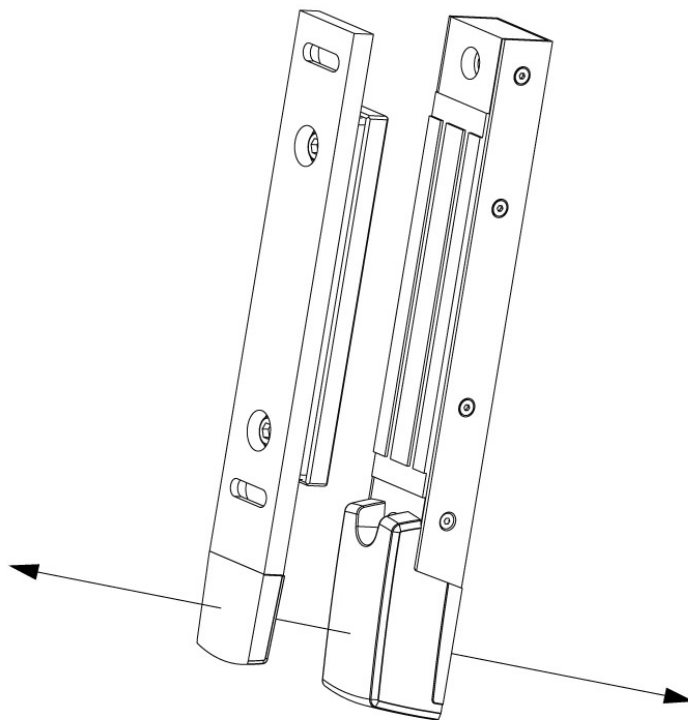
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Switching gap



Switching distance

Approach direction



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Assembly

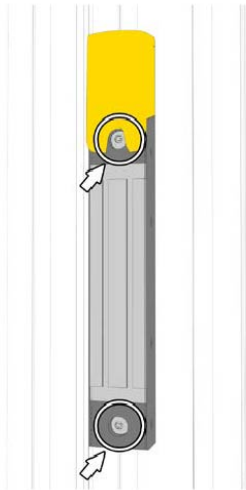


Fig.4: Attach the process guard locking to the profile at the desired height and tighten the Torx screws M6 x 25 mm.

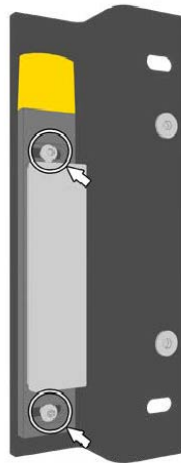


Fig.5: Attach the anchor plate to the mounting plate and tighten the Torx screws M6 x 8 mm.

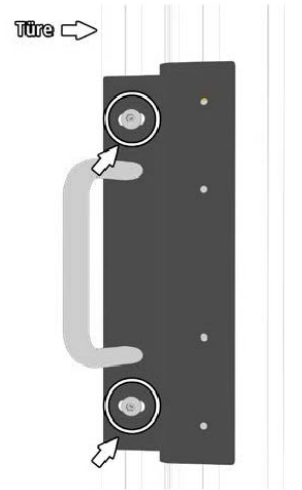


Fig.6: Attach the mounting plate with the anchor plate to the profile and align with the process guard locking. Tighten the Torx screws M8 x 12 mm.

Assembly 2

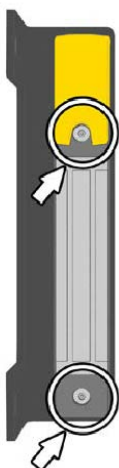


Fig.7: Attach the process guard locking to the mounting plate and tighten the Torx screws M6 x 25 mm.

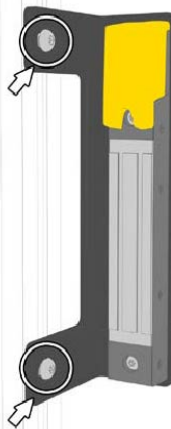


Fig.8: Attach the mounting plate with the process guard locking to the profile and tighten the Torx screws M8 x 12 mm.

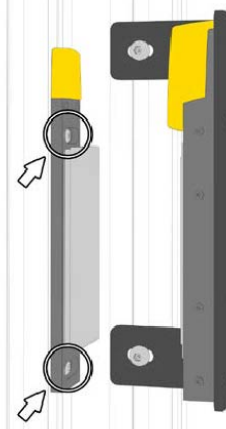


Fig.9: Attach the anchor plate to the profile of the sliding door and align it with the process guard locking. Tighten the Torx screws M6 x 10 mm.

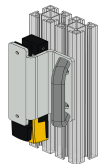
Equipment

Accessories

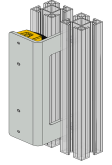
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M12-female connector, 8 pin, 10 m	C8D10	SP-R-13-309-81	
M12-female connector, 8 pin, 15 m	C8D15	SP-R-13-309-82	
M12-female connector, 8 pin, 25 m	C8D25	SP-R-13-309-67	
M12-female connector, 8 pin, 40 m	C8D40	SP-R-13-309-66	
M12-female connector, 8 pin, 5 m	C8D5	SP-R-13-309-80	

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	SP-X-71-002-00 
Mounting fitting HOLDX RL for wing doors	HOLDX RL-Z-MF2	SP-X-71-002-08 

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Mounting fitting HOLDX RL for sliding doors	HOLDX RL-Z-MS1	SP-X-71-002-01	
Anchorplate with RFID tag and with 50 N permanent magnet	HOLDX RS-A1	SP-X-71-001-42	
Anchorplate with RFID tag without additional permanent magnet	HOLDX RS-A2	SP-X-71-001-43	
Passive distributor	XCONN P6-M12-10m	SP-X-71-000-04	
Passive distributor	XCONN P6-M12-M23	SP-X-71-000-01	
Y distributor	XCONN Y2-M12	SP-X-33-000-71	
Connection module for EDI D1B	XCONN Y3-M12	SP-X-33-000-75	
Connection module EDI C7	XCONN Y4-M12	SP-X-33-000-76	
Safe control technology			

HOLDX RL1-P12-S-B

	MOSAIC M1	SP-R-11-000-00	
Standard safety relay 1 safety function	S2 series	SP-K-70-001-00	
Wireless Safety			
Safety Simplifier for HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q 2A0-Q3C0-Q4I0-W06	SP-X-89-000-46	
Safety Simplifier for two HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q 2I0-Q3C0-Q4I0-W10	SP-X-89-000-50	
Safety Simplifier for HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0- Q2A0-Q3C0-Q4I0-W07	SP-X-89-000-47	
Safety Simplifier for two HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0- Q2I0-Q3C0-Q4I0-W11	SP-X-89-000-51	
Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1 A0-Q2A0-Q3C0-Q4I0-W08	SP-X-89-000-48	
Safety Simplifier for two HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1 A0-Q2I0-Q3C0-Q4I0-W12	SP-X-89-000-52	

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Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-K4-Q1	SP-X-89-000-49	
	A0-Q2I0-Q3C0-Q4I0-W09		
Safety Simplifier for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K4-Q1	SP-X-89-000-53	
	A0-Q2I0-Q3C0-Q4I0-W13		
Safety Simplifier Standard Module wireless passive distributor	S16LDRB-H10-Q1A0-Q2A0-Q	SP-X-89-100-06	
	3C0-Q4A0-Q5U0-Q6U0-Q7U		
	0-Q8U0-W36		
Passive distributor	XCONN P6-M12-5m	SP-X-71-000-00	
Y-distributor	XCONN Y1-M12	SP-X-71-000-02	

Downloads

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