



SSP

Safety System Products

HOLDX RS1-P12-S-B

Magnetic guard lock standard coding, Pigtail M12 12-pin, 600 N locking force

Your advantages

To the downloads ►



we simplify safety

HOLDX RS1-P12-S-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 PLe** according 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 Tutorials Our 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-P12-S-B
Item number	SP-X-71-001-16
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 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
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HOLDX RS1-P12-S-B

Max. operating temperature -20 °C...+55 °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 I ₀	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 (U _d)	0,75 V
Amount OSSD safety output	1x 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

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
Length of anchor plate	108,2 mm
Height of anchor plate	17,5 mm



Safety System Products

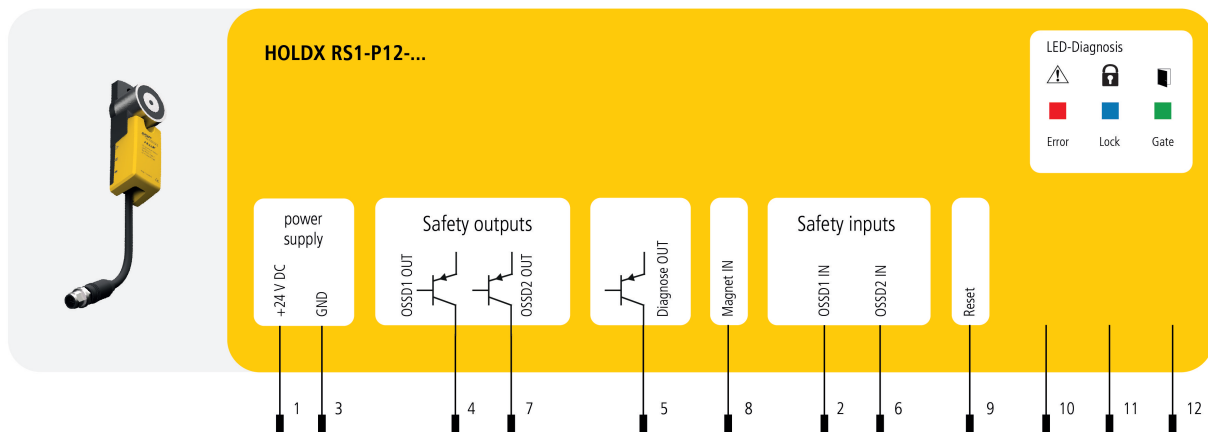
HOLDX RS1-P12-S-B

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
Generall periods	
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

HOLDX RS1-P12-S-B

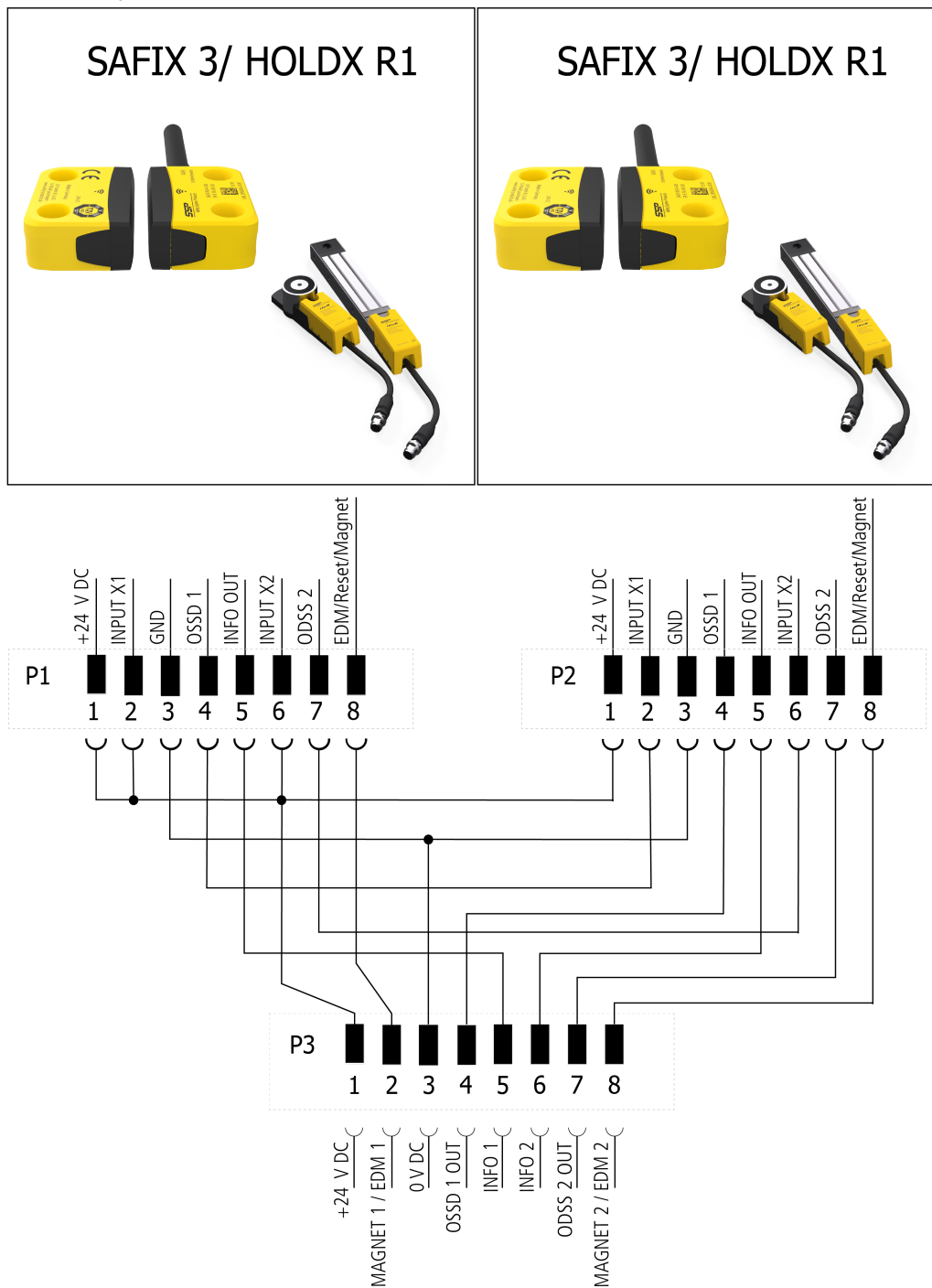
Electrical drawings

Connection drawing



HOLDX RS1-P12-S-B

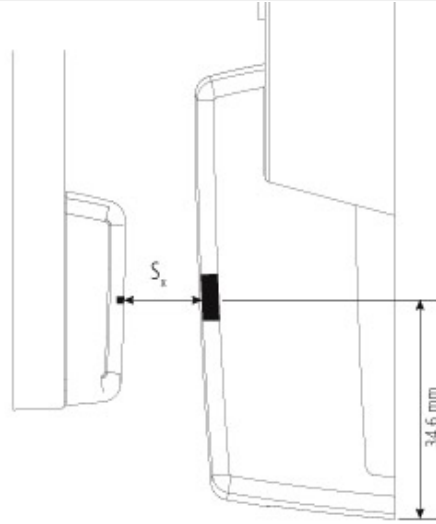
Connection example 1



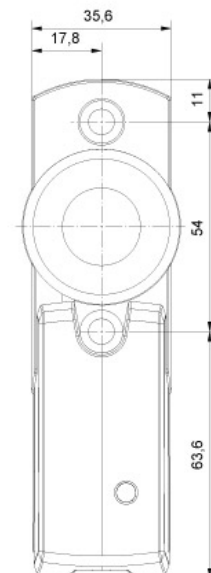
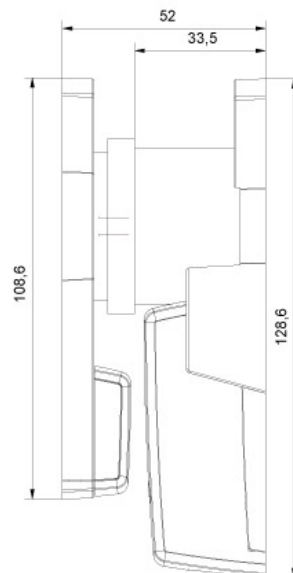
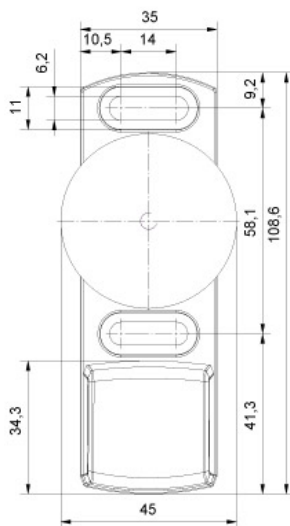
HOLDX RS1-P12-S-B

Drawings

Approach

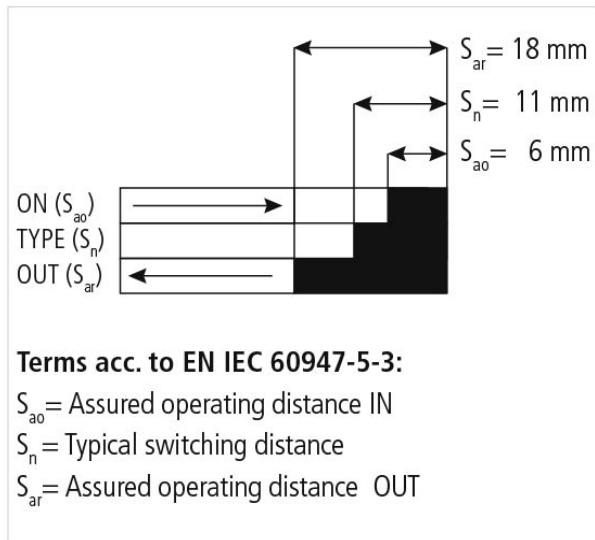


Dimensions



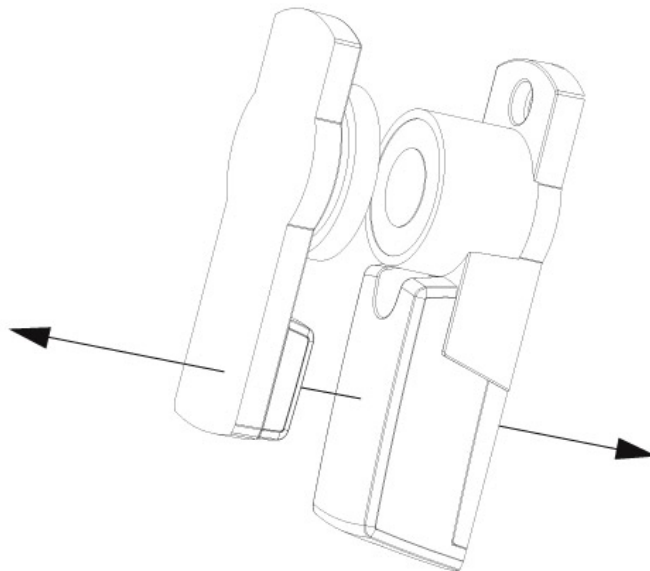
HOLDX RS1-P12-S-B

Switching gap



Switching distance

Approach direction



HOLDX RS1-P12-S-B

Assembly

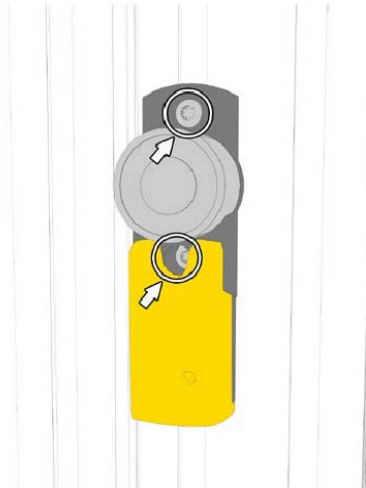


Fig.4: Attach the process guard locking to the profile at the desired height and tighten the Torx screws M6 x 25 mm.

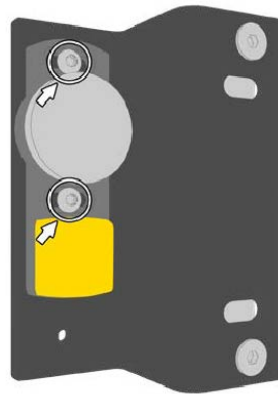


Fig.5: Attach the anchor plate to the mounting plate and tighten the Torx screws M6 x 8 mm.

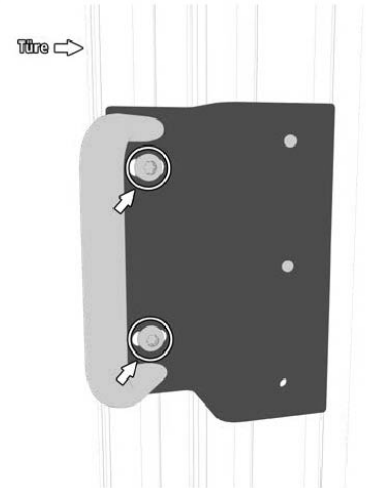


Fig.6: Attach the mounting plate with the anchor plate to the profile and align with the process guard locking. Tighten the Torx screws M8 x 12 mm.

Assembly 2

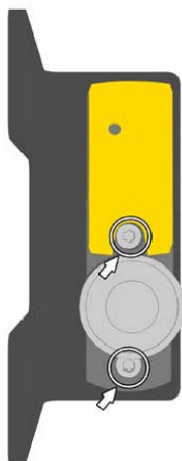


Fig.7: Attach the process guard locking to the mounting plate and tighten the Torx screws M6 x 25 mm.

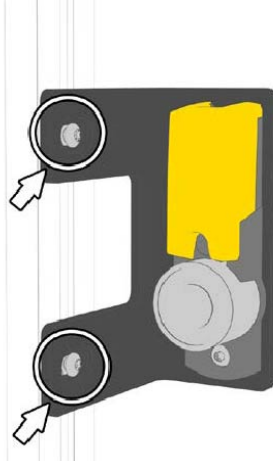


Fig.8: Attach the mounting plate with the process guard locking to the profile and tighten the Torx screws M8 x 12 mm.

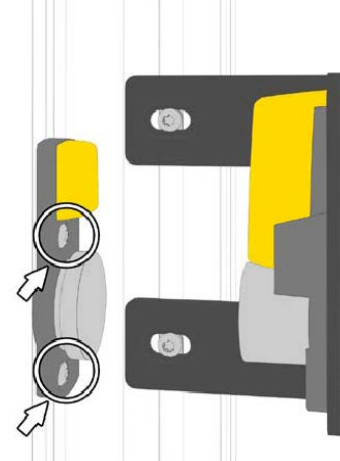


Fig.9: Attach the anchor plate to the profile of the sliding door and align it with the process guard locking. Tighten the Torx screws M6 x 10 mm.

Equipment

Accessories

HOLDX RS1-P12-S-B

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	
M12-female connector, 12 pin, 10 m	M12-C12101-G	SP-X-33-000-21	
M12-female connector, 12 pin, 20 m	M12-C12201-G	SP-X-33-000-22	

Safety switches

Free software for magnetic guard lock HOLDX R HOLDX Manager



HOLDX RS1-P12-S-B

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

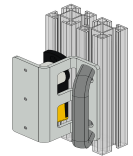
SP-X-71-001-43



Mounting fitting HOLDX RS for wing doors with
handle

HOLDX RS-Z-MF1

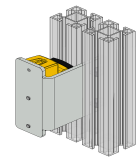
SP-X-71-002-02



Mounting fitting HOLDX RS for wing doors incl.
screws

HOLDX RS-Z-MF2

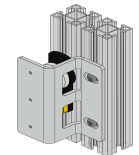
SP-X-71-002-07



mounting bracket for HOLDX RS, for hinged doors
mounting on the inside

HOLDX RS-Z-MF3

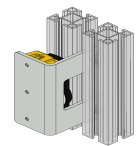
SP-X-71-002-09



Mounting fitting HOLDX RS for sliding doors

HOLDX RS-Z-MS1

SP-X-71-002-03



Passive distributor

XCONN P6-M12-10m

SP-X-71-000-04



Passive distributor

XCONN P6-M12-M23

SP-X-71-000-01



HOLDX RS1-P12-S-B

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

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

SP-X-89-000-46

2A0-Q3C0-Q4I0-W06



Safety Simplifier | for two HOLDX R1

S14LDRB-H08-E2-I1-Q1A0-Q

SP-X-89-000-50

2I0-Q3C0-Q4I0-W10



HOLDX RS1-P12-S-B

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-Q1A0-Q2A0-Q3C0-Q4I0-W08	SP-X-89-000-48	
Safety Simplifier for two HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1A0-Q2I0-Q3C0-Q4I0-W12	SP-X-89-000-52	
Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2I0-Q3C0-Q4I0-W09	SP-X-89-000-49	
Safety Simplifier for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2I0-Q3C0-Q4I0-W13	SP-X-89-000-53	
Safety Simplifier Standard Module wireless passive distributor	S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36	SP-X-89-100-06	

HOLDX RS1-P12-S-B

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
- CAD Data
- SISTEMA - Data V 4.1
- EPLAN-Data
- CAD Data