



SSP

Safety System Products

HOLDX RS1-P8-S-B

Magnetic guard lock pigtail standard 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 commissioning time
- Pigtail connection reduces cabling effort
- Less down- and setup time, due to maintenance Monitoring
- High tolerance for door offsets



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we simplify safety



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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-P8-S-B
Item number	SP-X-71-001-04
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	-25... + 55°C °C
Max. operating temperature	-25... + 55°C °C



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Protection class	IP67
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Electrical data

Supply voltage	24 VDC (+10/-15%)
Rated impulse withstand voltage Uimp	1 kV
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
Weight	375 g

Dimensions of anchor plate

Width of anchor plate	45 (35) mm
Length of anchor plate	108,2 mm



Safety System Products

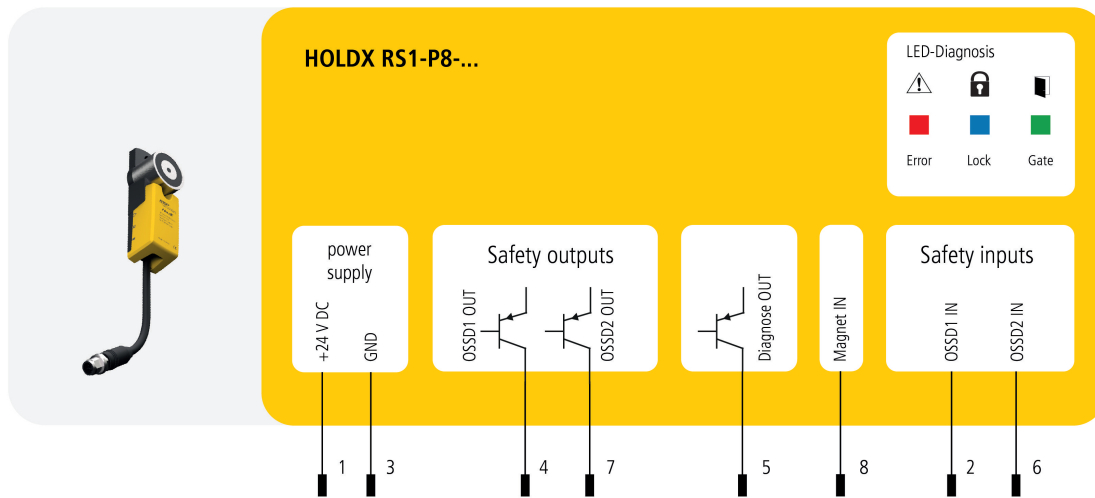
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Height of anchor plate	17,5 mm
Locking force electromagnet	600 N
Permanent magnet	50 N
Smart resting force	0/ 30 N/ 50 N
Weight process lock	375 g
Weight anchor plate	125 g
Torque (mounting screw) process lock	6 Nm
Mounting	Screwing with raised head 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

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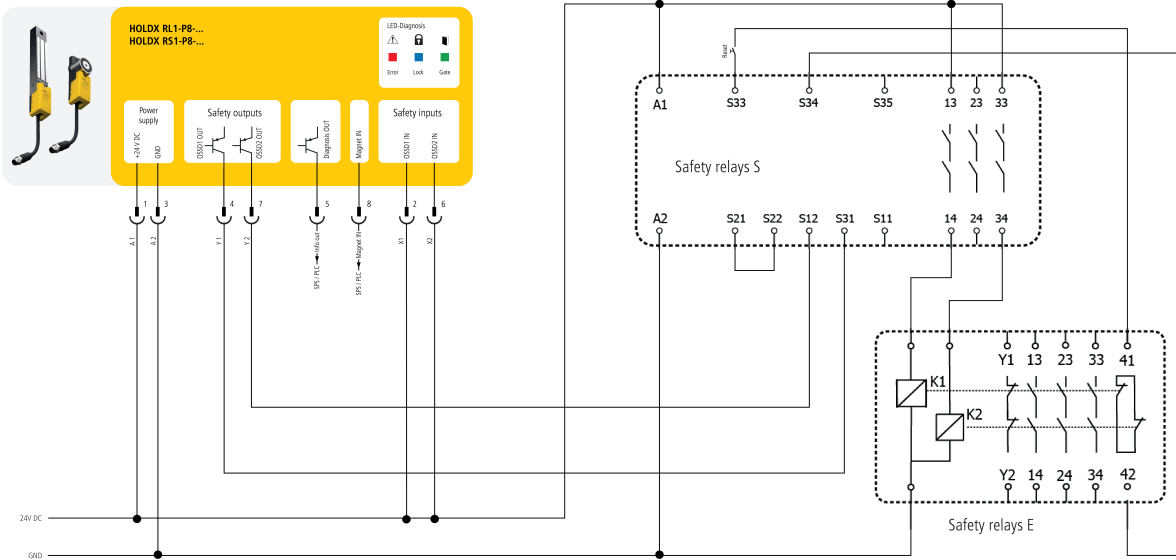
Electrical drawings

Connection drawing



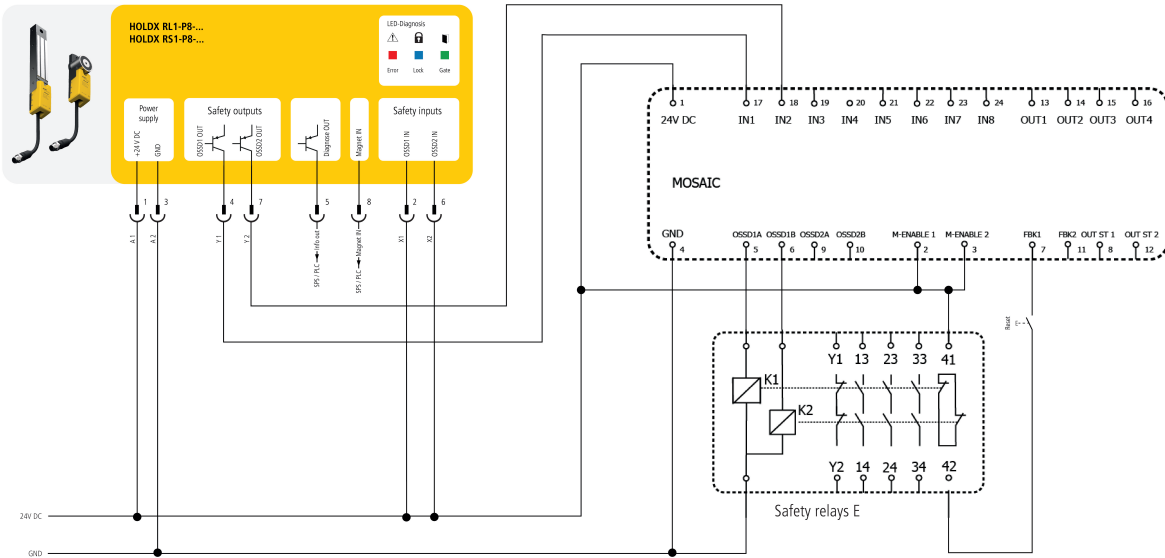
HOLDX RS1-P8-S-B

Connection example 1



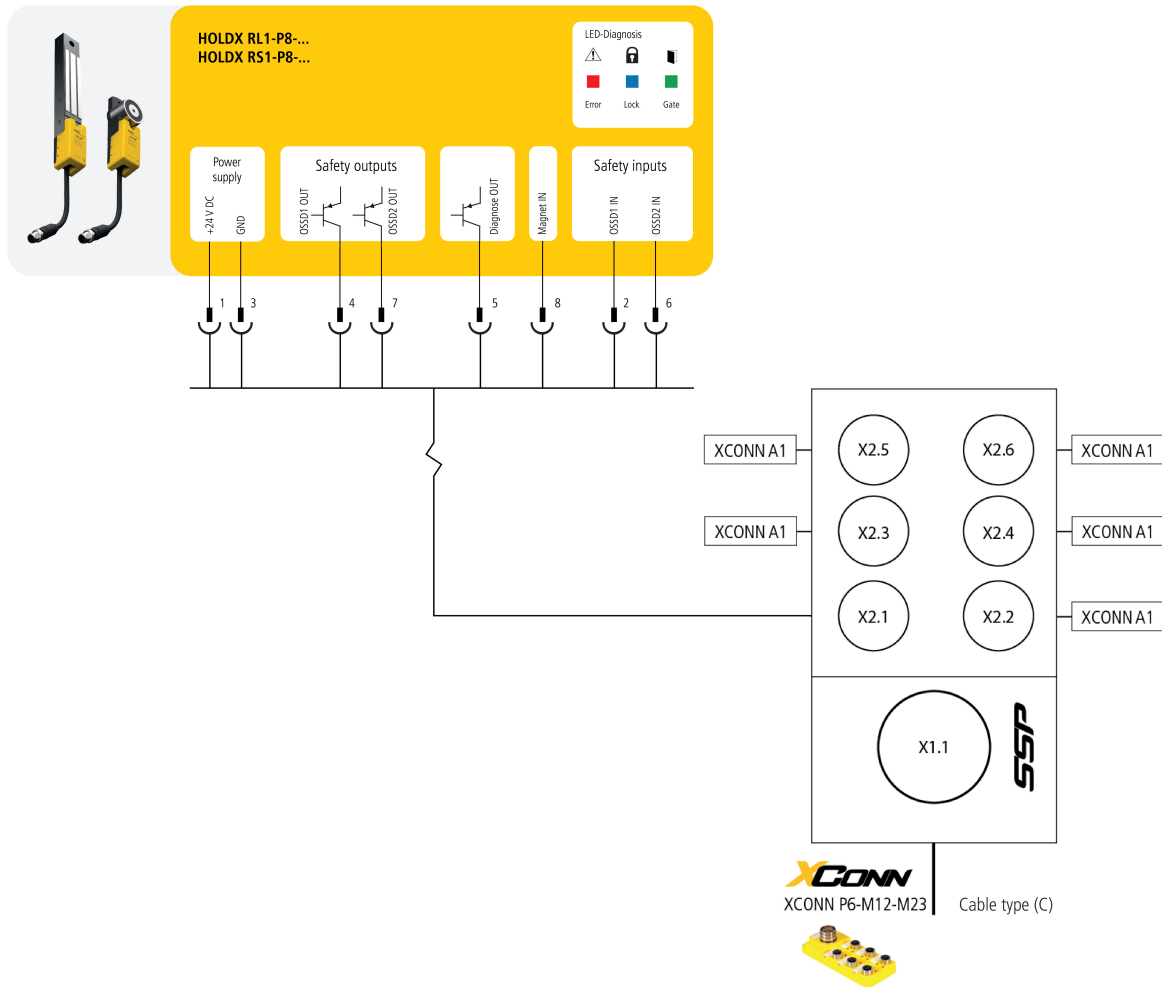
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Connection example 2



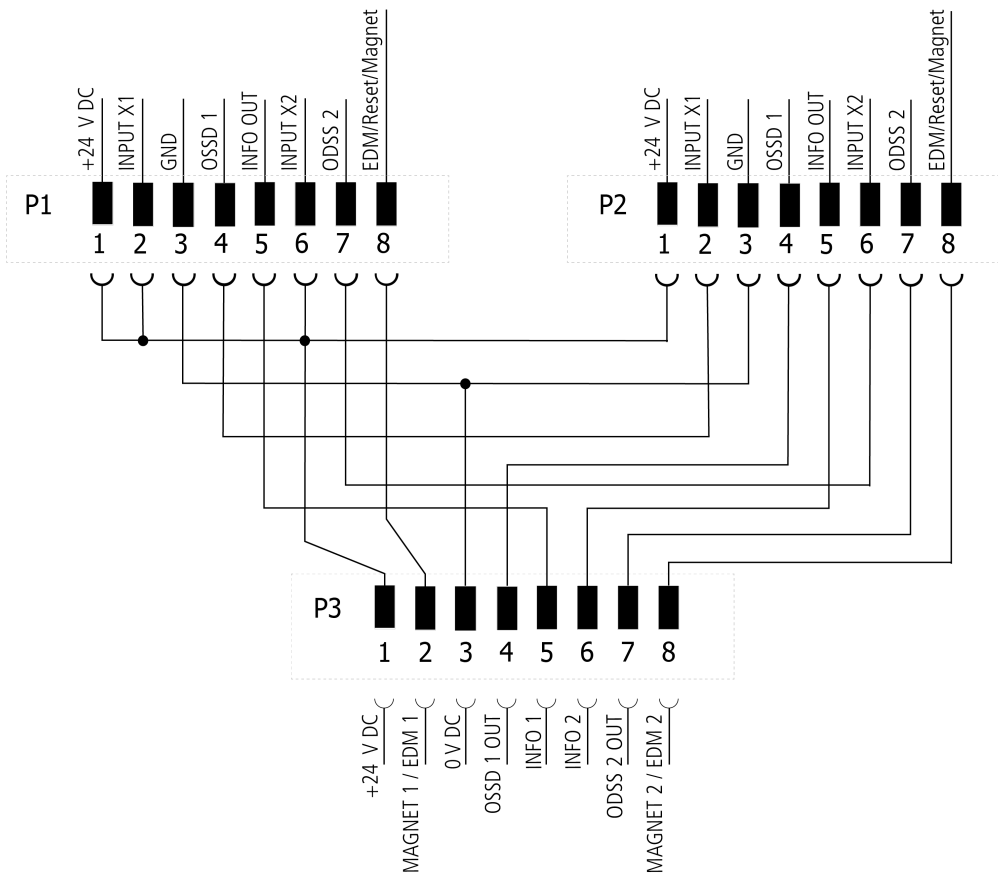
HOLDX RS1-P8-S-B

Connection example 3



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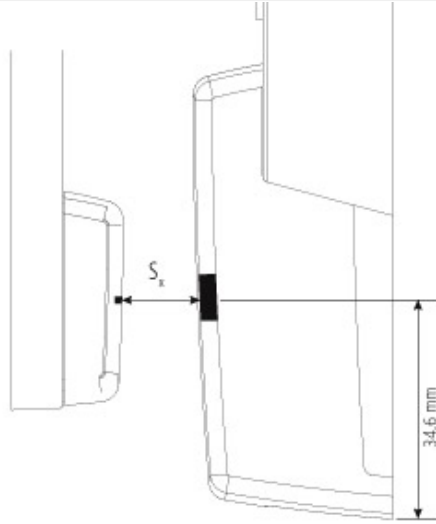
Connection example 4



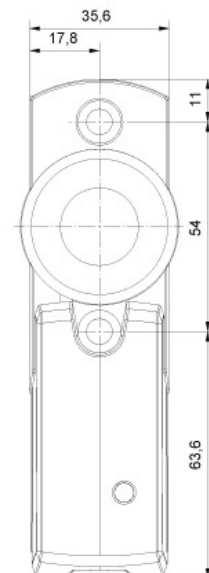
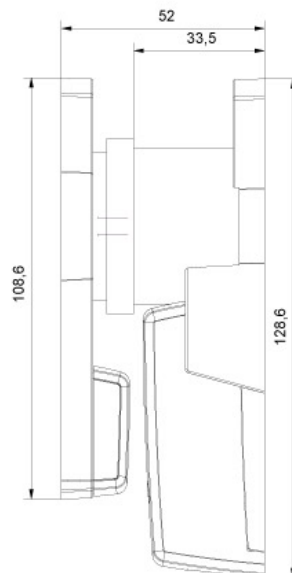
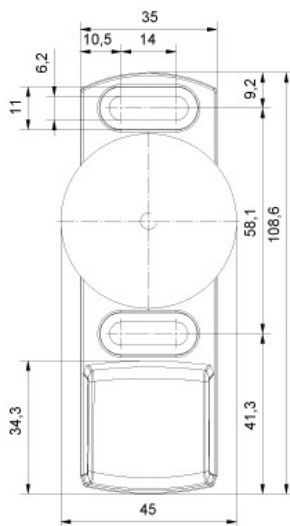
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Drawings

Approach

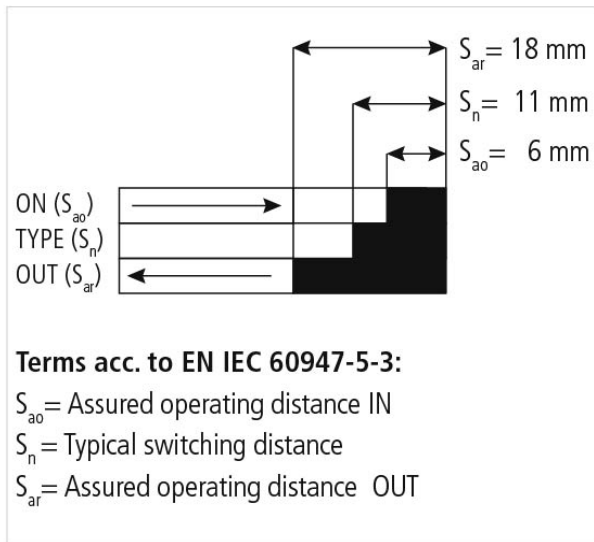


Dimensions



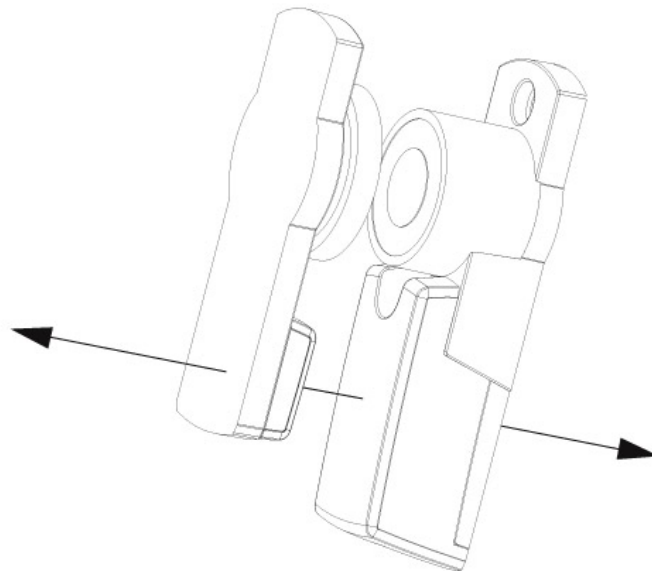
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Switching gap



Switching distance






Approach direction






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

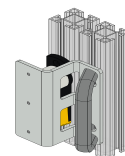
Free software for magnetic guard lock HOLDX R	HOLDX Manager		
Anchorplate with RFID tag and with 50 N permanent magnet	HOLDX RS-A1	SP-X-71-001-42	
Anchorplate with RFID tag without additional permanent magnet	HOLDX RS-A2	SP-X-71-001-43	

HOLDX RS1-P8-S-B

Mounting fitting HOLDX RS for wing doors with handle

HOLDX RS-Z-MF1

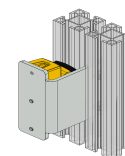
SP-X-71-002-02



Mounting fitting HOLDX RS for wing doors incl. screws

HOLDX RS-Z-MF2

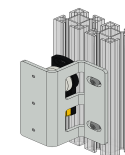
SP-X-71-002-07



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

HOLDX RS-Z-MF3

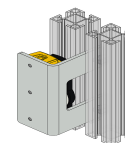
SP-X-71-002-09



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



Y distributor

XCONN Y2-M12

SP-X-33-000-71



Connection module for EDI D1B

XCONN Y3-M12

SP-X-33-000-75



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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



Safety Simplifier | for HOLDX R1

S14LDRB-H09-E2-I1-I1-Q1A0-

SP-X-89-000-47

Q2A0-Q3C0-Q4I0-W07



Safety Simplifier | for HOLDX R1







S14LDRB-H0A-E2-I1-I1-I1-Q1

SP-X-89-000-48

A0-Q2A0-Q3C0-Q4I0-W08



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Safety Simplifier for two HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1 A0-Q2I0-Q3C0-Q4I0-W12	SP-X-89-000-52	
Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-K8-Q1 A0-Q2I0-Q3C0-Q4I0-W09	SP-X-89-000-49	
Safety Simplifier for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K8-Q1 A0-Q2I0-Q3C0-Q4I0-W13	SP-X-89-000-53	
Safety Simplifier Standard Module wireless passive distributor	S16LDRB-H10-Q1A0-Q2A0-Q 3C0-Q4A0-Q5U0-Q6U0-Q7U 0-Q8U0-W36	SP-X-89-100-06	
Passive distributor	XCONN P6-M12-5m	SP-X-71-000-00	
Y-distributor	XCONN Y1-M12	SP-X-71-000-02	

HOLDX RS1-P8-S-B

Downloads

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