



SSP

Safety System Products

HOLDX RL2-CC-S

Magnetic guard lock slave, standard, 2 x pigtail M12 8-pin, 1200 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
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we simplify safety



Safety System Products

HOLDX RL2-CC-S

Ideal for large doors. Thanks to the locking force of **1200 N**, the **HOLDX RL** prevents doors from being torn open. With a slim width of only 35 mm, the guard locking is ideal for space-saving mounting on aluminum profile systems. In addition to the guard locking force of the electromagnet, the flexibly mounted armature plate also has a 50 N permanent magnet that prevents a door from immediately bursting open. The integrated RFID security 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	RL2-CC-S
Item number	1027837
Item number (old)	SP-X-71-001-12
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



Safety System Products

HOLDX RL2-CC-S

Switching current per safety output max.	100 mA (DC-12/DC-13)
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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
ΔT max	0,5 °C/ min

Electrical data

Supply voltage	24 VDC (+10/-15%)
Power consumption (incl. OSSD outputs)	17 W
Rated current (on 24 VDC)	645 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	(Version HOLDX RL1-8P) M12 8-pin, Pigtail 200 mm
Series connection for safe In- and Outputs	max. 30 process locks
Protection class power supply	III
Design / Connections	2x Pigtail 8-pins
Vernetzung	Slave
Risk time	75 ms ms

Mechanical data

Dimensions

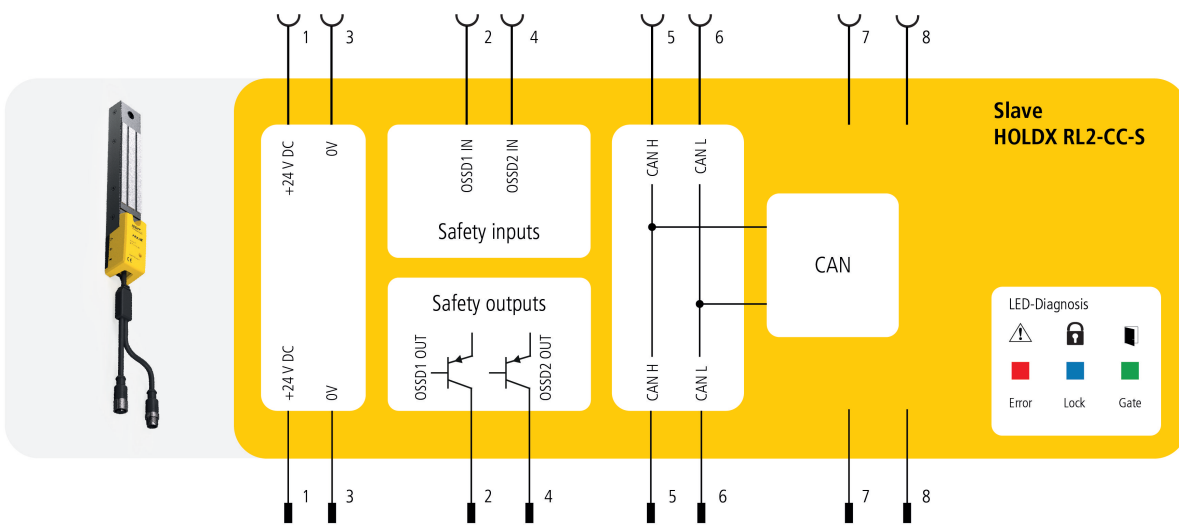
HOLDX RL2-CC-S

Width	34 mm
Length	(without cable) 240 mm
Height	31 mm
Locking force electromagnet	1200 N
Permanent magnet	50 N
Smart resting force	0/ 30 N/ 50 N
Weight process lock	725 g
Weight anchor plate	475 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, AlMgSi, TPE, PC
Material housing anchor plate	PBT GF30, Aluminium eloxated black, AlMgSi, 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)	4 mm
Assured switching distance OFF S(ar)	15 mm
Minimum switching distance S0min	0,5 mm
Typical switching distance S(n)	5 mm
Repeat accuracy R switching distance	<0,5 mm
Hysteresis	2 mm
Generall periods	
Readiness delay t(v)	3000 ms
Start delay actuator 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

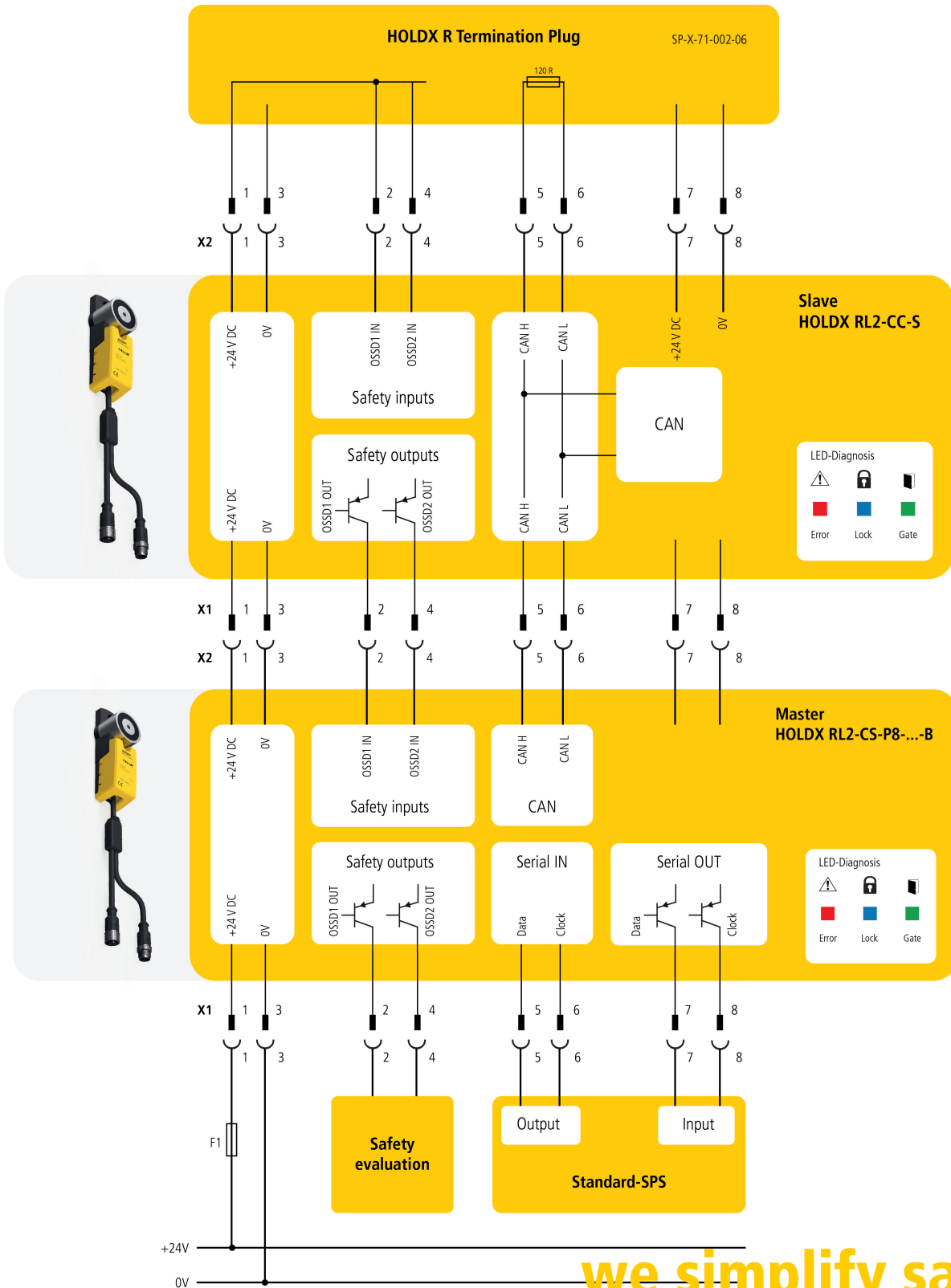
Connection drawing









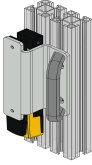

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HOLDX RL2-CC-S

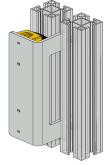






Connection example 1










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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	
M12-connection cable, 8-pin, 5 m	C8D5	1021396	
Safety switches			
M12-8 pin, resistance 120 Ohm	End plug HOLDX R1	1027881	
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	
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	
Wireless Safety			

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Safety Simplifier for two HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q 2I0-Q3C0-Q4I0-W10	1045627	
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-K4-Q1 A0-Q2A0-Q3C0-Q4I0-W09	1044507	
Safety Simplifier for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K4-Q1 A0-Q2I0-Q3C0-Q4I0-W13	1044490	
Safety Simplifier Standard Module wireless passive distributor	S16LDRB-H10-Q1A0-Q2A0-Q 3C0-Q4A0-Q5U0-Q6U0-Q7U 0-Q8U0-W36	1030121	
Passive distributor	XCONN P6-M12-5m	1027824	

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Y-distributor

XCONN Y1-M12

1027826



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- Product line
- Catalog
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- CAD Data
- HOLDX R2 Software Gateway