



SSP

Safety System Products

S16LDRB-H10-Q1A0-Q2A0-Q3A0-Q4A0

Safety Simplifier | S16 control cabinet unit

Your advantages

- 14 I/O's as safety Inputs or redundant OSSD-Outputs
- wireless Interface for safe communication, programming & diagnosis
- IP65
- 40mm width for aluminium safety fence systems



To the downloads ►

we simplify safety

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With the Safety Simplifier we take safety where it is needed and we provide safety where it is needed with the Safety Simplifier and make it easier for you to develop user-friendly safety systems, such as on access doors. Simply connect up your sensors, locking systems or light curtains. Select the required push button and/or emergency stop button and you have a complete safety solution with analysis and diagnosis functions. This data is wirelessly transmitted via another Safety Simplifier or directly transmitted to your existing system in a fail-safe manner.

General data

Type designation	S16LDRB-H10-Q1A0-Q2A0-Q3A0-Q4A0
Item number	1039598
Item number (old)	SP-X-89-000-03
Functional type	Safety- PLC with safe wireless interface, internal antenna

Safety data

CPU

- EN ISO 13849-1: 2008	Category 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20

1-channel input

- EN ISO 13849-1: 2008	Category 2
- IEC 61508-2	SIL CL 2
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20

2-channel input

- EN ISO 13849-1: 2008	Category 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20

1-channel OSSD output

- EN ISO 13849-1: 2008	Category 2
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- IEC 61508-2	SIL CL 2
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
2- channel OSSD Output	
- EN ISO 13849-1: 2008	Category 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
2- channel relais output	
- EN ISO 13849-1: 2008	Category 4
- EN 62061 SIL CIL	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
Approvals	CE, TÜV

Environmental conditions

Max. storage temperature	-20 °C ... +65 °C
Max. operating temperature	-20 °C ... +65 °C

Electrical data

Technical data wireless safety

- max. amount of safe wireless channels	16
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Channels

- Channel 1	2405 MHz
- Channel 2	2410 MHz
- Channel 3	2415 MHz
- Channel 4	2420 MHz
- Channel 5	2425 MHz
- Channel 6	2430 MHz
- Channel 7	2435 MHz
- Channel 8	2440 MHz
- Channel 9	2445 MHz
- Channel 11	2455 MHz

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- Channel 10	2450 MHz
- Channel 12	2460 MHz
- Channel 13	2465 MHz
- Channel 14	2470 MHz
- Channel 15	2475 MHz
- Channel 16	2480 MHz
- amount of clamps	32
Supply voltage	10 - 30 V
Current consumption	110 mA with LED display
Conductor cross section	
- single wire	0,08 ... 0,5 mm ²
- fine wire	0,08 ... 0,5 mm ²
- fine wired (wire sleeve without plastic collar)	0,25 mm ²
configurable In-/ Outputs	
14 semiconductor In-/ Outputs with help of software configurable	□
Amount of safe inputs	max. 14
Amount of safe semi-conductors OSSD outputs	max. 14
Amount of semi-conductors auxilliary outputs	max. 14
Amount of semi-conductors clock outputs	max. 8
Input current	HIGH 2,4 mA ... 3,8 mA LOW -2,5 mA ... 2,1 mA
Output type	PNP- Semiconductor
Output voltage	Operating Voltage UB -0,5 V
Seperate output current	max. 600 mA (bei UB 24 V)
Total output current	max. 2 A (bei UB 24 V)
General data	
Memory card	Installation of a memory card MEM SP-N-88-001-93 possible
Programming connection	Micro USB Wireless-Interface
- fine wired (wire sleeve with plastic collar)	0,08 ... 0,5 mm ²
Input voltage	HIGH 75% from UB (adjustable by software) LOW 25% from UB (adjustable by software)
Technical data inputs	

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Technical data safe OSSD outputs, auxilliary and test pulse outputs

Short-circuit proof	Yes
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Mechanical data

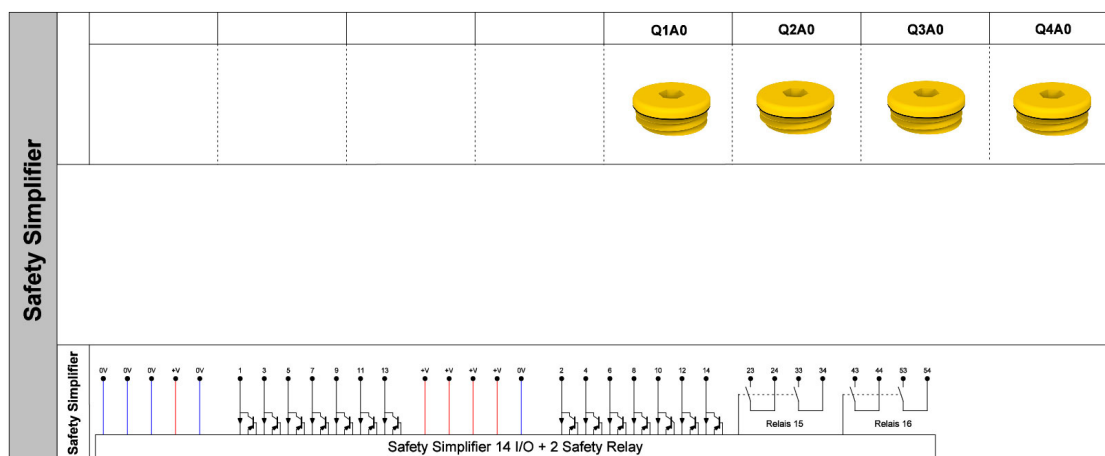
Installation opening of buttons	22,5 mm
Type of housing	H10

Dimensions

Height	44 mm
Length	253 mm
Width	42 mm

Electrical drawings

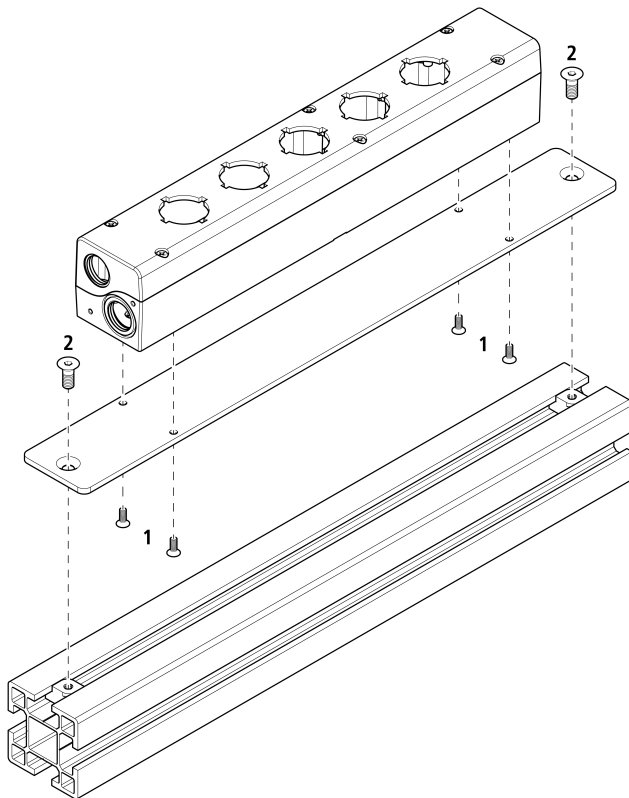
Connection example 1



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Drawings

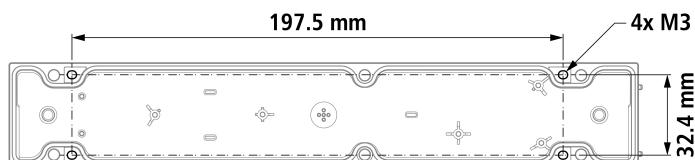
Assembly



- 1.) Position the housing over the holes provided and fasten it to the mounting plate using the four M3 countersunk screws supplied
- 2.) Fasten the mounting plate to a profile rail, for example, using two M5 countersunk screws (not included).

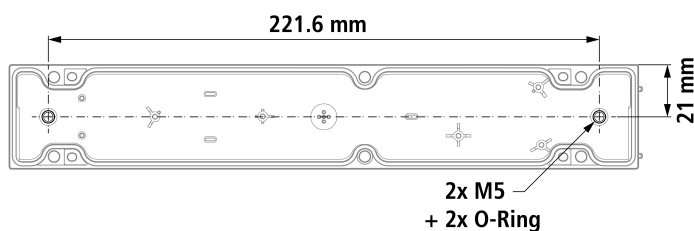
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Assembly 2



Mounting variant 1:

From the outside, with four M3 screws in the slotted holes provided.



Mounting variant 2:

Inside the housing, with two M5 screws fitted with O-rings at both ends of the housing.

The openings for the two M5 screws must be broken out.

Equipment

Accessories

M12-female connector, 5-pin

M12-C51-G

1022422



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M12-male connector, 5 pin	M12-C52-G	1022423	
M12-female connector, 8 pin	M12-C81-G	1022424	
M12-male connector, 8 pin	M12-C82-G	1022425	
M12-connecting cable, 12 pin, 1 m	M12-M12-C1213-G	1022373	
M12-connecting cable, 5 pin, 0,5 m	M12-M12-C5023-G	SP-X-33-000-10	
M12-connecting cable, 5 pin, 1 m	M12-M12-C513-G	SP-X-33-000-11	
M12-connecting cable, 5 pin, 2 m	M12-M12-C523-G	SP-X-33-000-12	
M12-connecting cable, 8 pin, 10 m	M12-M12-C8103-G	1022352	

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M12-connecting cable, 8 pin, 1 m	M12-M12-C813-G	1022368	
M12-connecting cable, 8 pin, 5 m	M12-M12-C853-G	SP-X-33-000-08	

Wireless Safety

Article code ZMB	Mounting plate big	1019520	
Article code ZMS	Mountingplate small	1019519	
Article code ZSD	Screw with seal	1029016	
External antenna for Safety Simplifier, cable length 1 m	Simplifier EXTA 1 m	1029141	
External antenna for Safety Simplifier, cable length 10 m	Simplifier EXTA 10 m	1029137	
External antenna for Safety Simplifier, cable length 2 m	Simplifier EXTA 2 m	1029140	

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External antenna for Safety Simplifier, cable length

5 m

Simplifier EXTA 5 m

1029139



External antenna for Safety Simplifier, cable length

8 m

Simplifier EXTA 8 m

1029138



Free software for the Safety Simplifier System

Simplifier Manager



Simplifier Monitor SRM

1019521



Fastening set for Safety Simplifier for back panel

mounting

Simplifier ZHMS

1029018



Fastening set for Safety Simplifier

Simplifier ZHS

1029018



Operating elements

Universal hook

SP UH-K

1022689





Safety System Products

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- Certificates
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- Operating manual
- EPLAN-Data