



SSP

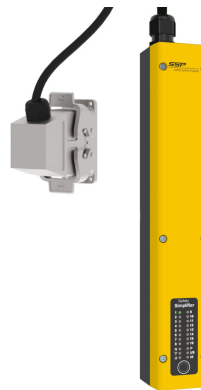
Safety System Products

S16LDRB-H06-Q1A0-Q2A1-Q3A0-Q4A0-W55

Safety Simplifier | Euromap 78 communication

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



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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-H06-Q1A0-Q2A1-Q3A0-Q4A0-W55
Item number	SP-X-89-100-31
Functional type	Safety- PLC with safe wireless interface, internal antenna, Euromap 78 connection
- Position 1	Q1A0 - Connection bottom left with cover
- Position 2	Q2A1 - Connection top left Harting 10B - Euromap 78
- Position 3	Q3A0 - connection bottom right with cover
- Position 4	Q4A0 - Connection top right with cover

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]	□

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- EN ISO 13849-1: 2008 TM [Year]	20
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1-channel OSSD output

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

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

- EN ISO 13849-1: 2008	Category 4
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- EN 62061 SIL CIL	SIL CL 3
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- EN 62061 PFHD [1/h]	□
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- EN ISO 13849-1: 2008 TM [Year]	20
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Environmental conditions

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

Technical data wireless safety

- max. amount of safe wireless channels	16
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Channels

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

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Technical data inputs

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	H06

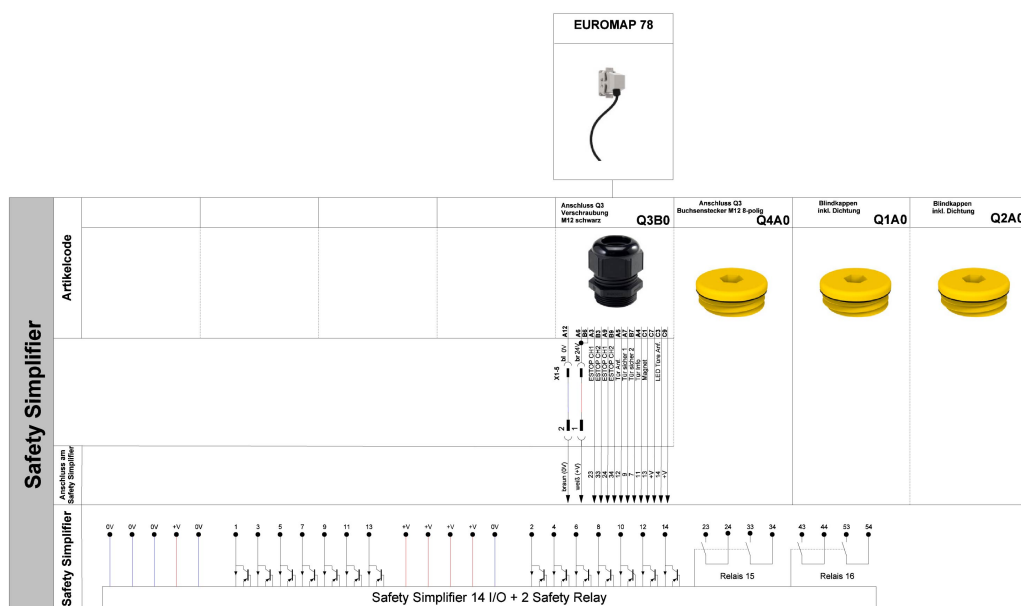
Dimensions

Height	44 mm
Length	253 mm
Width	42 mm

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Electrical drawings

Connection example 1



Equipment

Accessories

M12-female connector, 5-pin	M12-C51-G	SP-X-33-001-00	
M12-male connector, 5 pin	M12-C52-G	SP-X-33-001-01	
M12-female connector, 8 pin	M12-C81-G	SP-X-33-001-02	

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M12-male connector, 8 pin	M12-C82-G	SP-X-33-001-03	
M12-connecting cable, 12 pin, 1 m	M12-M12-C1213-G	SP-X-33-000-30	
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	SP-X-33-000-09	
M12-connecting cable, 8 pin, 1 m	M12-M12-C813-G	SP-X-33-000-25	
M12-connecting cable, 8 pin, 5 m	M12-M12-C853-G	SP-X-33-000-08	

Wireless Safety

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Article code ZMB	Mounting plate big	SP-N-88-850-02	
Article code ZMS	Mountingplate small	SP-N-88-850-01	
Article code ZSD	Screw with seal	SP-X-88-001-89	
External antenna for Safety Simplifier, cable length 1 m	Simplifier EXTA 1 m	SP-X-88-200-24	
External antenna for Safety Simplifier, cable length 10 m	Simplifier EXTA 10 m	SP-X-88-200-20	
External antenna for Safety Simplifier, cable length 2 m	Simplifier EXTA 2 m	SP-X-88-200-23	
External antenna for Safety Simplifier, cable length 5 m	Simplifier EXTA 5 m	SP-X-88-200-22	
External antenna for Safety Simplifier, cable length 8 m	Simplifier EXTA 8 m	SP-X-88-200-21	

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Free software for the Safety Simplifier System

Simplifier Manager



Simplifier Monitor SRM

SP-N-88-850-03



Fastening set for Safety Simplifier for back panel

Simplifier ZHMS

SP-X-88-001-91



mounting

Fastening set for Safety Simplifier

Simplifier ZHS

SP-X-88-001-91



Operating elements

Universal hook

SP UH-K



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