



# SSP

Safety System Products

**S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36**

**Safety Simplifier Standard Module wireless passive distributor**

**Your advantages**

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## Safety System Products

# S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36

- S16LDRB-H06: Safety Simplifier with 14 safe I/Os plus 2 double relay outputs
- LED diagnostics for easy commissioning
- Safe wireless communication
- Lower part of housing: colour anthracite, no cut-out for connection on rear side
- Upper part of the housing: colour yellow
- Q1A0: Bottom left connection with cover
- Q2A0: Top left connection with cover
- Q3C0: Connection at bottom right with M12 5-pin plug for power supply
- Q4A0: Connection top right with cover
- Q5U0: Command point 1 for HOLDX R1 (process guard locking) & SAFIX (RFID safety sensor)
- Q6U0: Command point 2 for HOLDX R1 (process guard locking) & SAFIX (RFID safety sensor)
- Q7U0: Command point 3 for HOLDX R1 (process guard locking) & SAFIX (RFID safety sensor)
- Q8U0: Command point 4 for HOLDX R1 (process guard locking) & SAFIX (RFID safety sensor)
- W36: already pre-wired

### General data

Type designation	S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36
Item number	SP-X-89-100-06
Functional type	safety PLC with safe wireless interface, internal antenna

### Connection

- Position 1	Q1A0- Connection bottom left with cover
- Position 2	Q2A0- Connection top left with cover
- Position 3	Q3C0- male connector M12 5-Pin
- Position 4	Q4A0- Connection top right with cover

### Connection front

- Position 5	Q5U0 - Female Connector M12 8-pin for process lock HOLDX R_1
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- Position 6	Q6U0 - Female Connector M12 8-pin for process lock HOLDX R_1
- Position 8	Q8U0 - Female Connector M12 8-pin for process lock HOLDX R_1
- Position 7	Q7U0 - Female Connector M12 8-pin for process lock HOLDX R_1

### Safety data

#### CPU

- 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

#### 1-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

#### 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
- 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 ISO 13849-1: 2008 TM [Year]	20



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- EN 62061 PFHD [1/h]	□
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
- 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
Current consumption	82 mA with LED display

#### Conductor cross section

- single wire	0,08 ... 0,5 mm <sup>2</sup>
- fine wire	0,08 ... 0,5 mm <sup>2</sup>



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# S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36

- fine wired (wire sleeve without plastic collar)	0,25 mm <sup>2</sup>
stripping length	5-6 mm
<b>configurable In-/ Outputs</b>	
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 75% from UB (adjustable by software) LOW 25% from UB (adjustable by software)
Output type	PNP-Semi-conductor
Output voltage	Operating voltage UB -0,5 V
Seperate output current	max. 600 mA (with UB 24 V)
Total output current	max. 0,6 mA (with UB 24 V)
<b>General data</b>	
Memory card	Installation of memory card MEM SP-N-88-001-93 possible
Programming connection	Micro USB Wireless-Interface
Type terminal connection	clamp terminal
- fine wired (wire sleeve with plastic collar)	0,08 ... 0,5 mm <sup>2</sup>
Input voltage	HIGH 75% from UB (adjustable by software) LOW 25% from UB (adjustable by software)
<b>Technical data inputs</b>	
<b>Technical data safe OSSD outputs, auxilliary and test pulse outputs</b>	
Short-circuit proof	Yes
Selection of the connected sensors	The dip switches are used to select which sensor technology is connected to the individual socket connections (Q5-Q8)
<b>Mechanical data</b>	
Installation opening of buttons	22,5 mm

### S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36

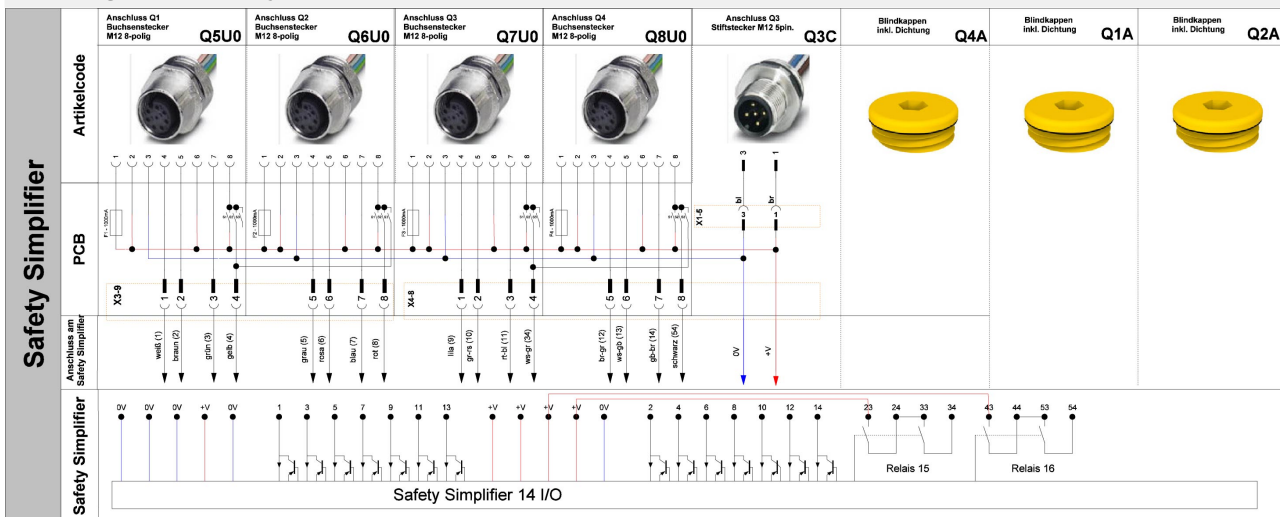
Type of housing H10

#### Dimensions

Height 44 mm  
 Length 253 mm  
 Width 42 mm

#### Electrical drawings

Pin assignment safety PLC



#### Equipment

##### Wireless Safety

Article code ZMB

Mounting plate big

SP-N-88-850-02



Article code ZMS

Mountingplate small


SP-N-88-850-01





Safety System Products

# S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36




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	
Free software for the Safety Simplifier System	Simplifier Manager		

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## S16LDRB-H10-Q1A0-Q2A0-Q3C0-Q4A0-Q5U0-Q6U0-Q7U0-Q8U0-W36

	Simplifier Monitor SRM	SP-N-88-850-03	
Fastening set for Safety Simplifier for back panel mounting	Simplifier ZHMS	SP-X-88-001-91	
Fastening set for Safety Simplifier	Simplifier ZHS	SP-X-88-001-91	

### Downloads

- Certificates
- CAD Data
- Certificates
- Catalog
- Product line
- Operating manual
- EPLAN-Data

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