

4 Technical data and Safety parameters

4.1 Technical data

Recommended fuse	Fast Acting Fuse 2,5 A
Power supply	10 - 30 VDC
Current consumption except load on outputs	90 mA inactive mode, LED and relays not activated 110 mA active mode with LED, relays not activated 210 mA active mode, LED, I/O and 4 relays activated
Maximum output current transistor output	600 mA
Voltage drop when output 600 mA	0.5 V below supply voltage
Maximum total output current transistors	2000 mA
I/O	Selectable as Input, Output or as a combined I/O
I/O as Input	10 – 30 VDC (for PNP sensors)
I/O as Output transistor	10-30 VDC
I/O as OSSD output with self-test during	<150µs
I/O as combined Input and Output for reset	10-30 VDC
Relay contacts (S16 only)	Gold plated AgSnO ₂
DC13	2A
Relay contacts (inductive/resistive load)	Max 2A (1260 op/year for 10 years) Max 49 VDC
Relay contacts (inductive/resistive load)	Max 0,5 A (3780 op/year for 10 years) Max 49 VDC
Relay contacts (inductive/resistive load)	Max 0,2 A (100 800 op/year for 10 years) Max 49 VDC
Operating temperature	-20 °C to + 65 °C
Operating altitude	Up to 2000 m
Storage temperature	-30 °C to + 70 °C
Relative operating humidity	10 - 90 %
Terminals (spring)	32 (max 0,5 mm ² or 24 AWG)
Vibration in accordance with the standard	EN 60068-2-6
Frequency	5-150 Hz
Acceleration	1 g
Shock stress in accordance with the standard	EN 60068-2-27
Acceleration	15 g
Duration	11ms
Relative operating humidity	10 - 90 %
Mounting surface size	253 x 40 x 44 mm
Maximum size housing	253 x 42 x 44 mm
Weight S14RBLD/S16RBLD without holes/plugs	About 235/265 g

Enclosure material	PC + ABS, UL-certified material, ANSI/UL 94
Degree of protection, IEC 60529	IP 65
Ventilation enclosure	GORE-TEX membrane
USB contact	micro USB with 180-degree DIP package
Lifetime	Calculations for PFH-d 61508 up to 10 years Calculations for PFH-d 13849-1 up to 20 years
Radio frequency channel number 1	2405 MHz
Radio frequency channel number 2	2410 MHz
Radio frequency channel number 3	2415 MHz
Radio frequency channel number 4	2420 MHz
Radio frequency channel number 5	2425 MHz
Radio frequency channel number 6	2430 MHz
Radio frequency channel number 7	2435 MHz
Radio frequency channel number 8	2440 MHz
Radio frequency channel number 9	2445 MHz
Radio frequency channel number 10	2450 MHz
Radio frequency channel number 11	2455 MHz
Radio frequency channel number 12	2460 MHz
Radio frequency channel number 13	2465 MHz
Radio frequency channel number 14	2470 MHz
Radio frequency channel number 15	2475 MHz
Radio frequency channel number 16	2480 MHz

Technical data CAN card for Safety Simplifier

Power supply	10 – 30 VDC
Current consumption	0,02 A at 24 VDC
Terminals (spring)	7 (max 0.5 mm ²)
Selector for resistor. Shall be set to ON at CAN-card for each end of CAN bus	Position ON = 120 Ohm between H & L Position 1 = no resistor

Data Rate	Trunk Distance	Stub length
		Units connected on a Stub must not have termination resistors fitted Max single stub length
125kpbs	250m	2.4m
250kpbs	160m	1.2m
500kpbs	70m	0.6m