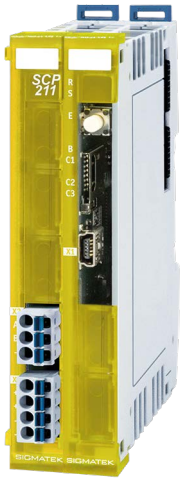


S-DIAS Safety CPU Module SCP 211



with 1 Safety Interface
1 USB Device
1 microSD Slot
1600 mA for supply of I/O modules

The S-DIAS SCP 211 Safety CPU module supports up to 16 Safe I/O modules. In addition, the SCP 211 can operate handheld devices with Emergency stop switch, consent button and key switch. The Safety CPU component has the safety integrity level SIL3 (EN / IEC 62061) or Performancelevel e (PL e), Category 4 (EN ISO 13849-1).

With the SCP 211, the safe process data is transmitted with its own safety protocol (FSOE).

Performance Data

CPU	ARM Cortex M μ Controller	
Addressable safety I/O modules	S-DIAS Safety Bus: 16	
Data memory	Type	SRAM
	Memory	500 kbytes
Program memory	Type	Flash
	Memory	1 Mbyte
Remnant memory for parameter lists	Type	SPI-Flash
	Memory	64 kbytes
	Life span	min. 100.000 write access
Remnant memory for variables	Type	EERAM
	Memory	1000 byte
Interfaces	1x microSD card holder 1x Safety interface 1x S-DIAS IN/OUT 1x Safety bus OUT	
Programming interfaces	1x USB device	
Bus connection possible	yes	
Status LEDs	yes	

Electrical Requirements

Module Supply (Input)					
Supply voltage	+19.2-28.8 V DC, typically +24 V DC SELV/PELV				
Current, internal consumption	typically 90 mA internal consumption				
Current consumption	maximum 2.4 A				
Current consumption from the S-DIAS bus			+5 V		+24 V
	with missing +24 V connection (X3)	typically 250 mA	maximum 300 mA	0 A	0 A
	with existing +24 V connection (X3)	0 A	0 A	0 A	0 A
S-DIAS Bus/Safety Supply (Output)					
Voltage supply	in the S-DIAS bus	+5 V		+24 V	
		0 A		0 A	
	in the S-DIAS Safety bus (supply of the I/O modules)	+12 V		+24 V	
		max. 0.8 A		max. 1.6 A	

Article Number and Miscellaneous

Article number	20-890-211
Dimensions	25 x 104.2 x 72 mm (W x H x D)
Approvals	CE, TÜV EC type approved

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating	
	> 2000 m up to a maximum of 5000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	in accordance with 61000-6-7:2015 (Generic standards - Immunity requirements for equipment intended to perform functions in safety-related systems (functional safety) at industrial locations) in accordance with EN 61000-6-2:2007 (industrial area) (increased requirements in accordance with IEC 62061)	
EMC noise generation	in accordance with EN 61000-6-4:2007 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20