PCD7.H104S

Saia® S-Bus S0 module

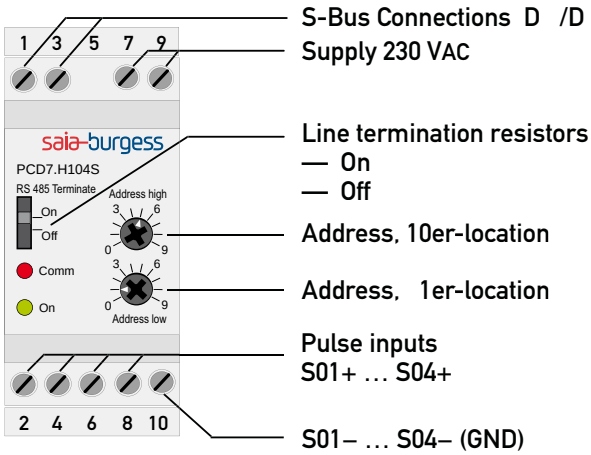
- Central counting, reading and invoicing with Saia® PCD / PCS
- Transmission of counting impulses via Saia® S-Bus
- Convenient programming/parameterizing of energy meter networks with Saia® PG5 Fupla FBoxes
- 230 VAC

- Low installation costs by transmitting individual consumption details via Saia® S-Bus
- Up to 400 energy meters (4 per Saia® S-Bus S0 module)
- Up to 100 Saia® S-Bus S0 modules can be interconnected
- 4 S0 impulse outputs (S01…S04) per Saia® S-Bus S0 module
- LED signaling: green = operation display
  red = bus activity

Applications

- Individual consumption invoicing, e.g. in shared offices, in industry, etc.
- Knowledge of the demond for power of the various consumers is important for power management in hotels, motels, homes, hospitals, etc.

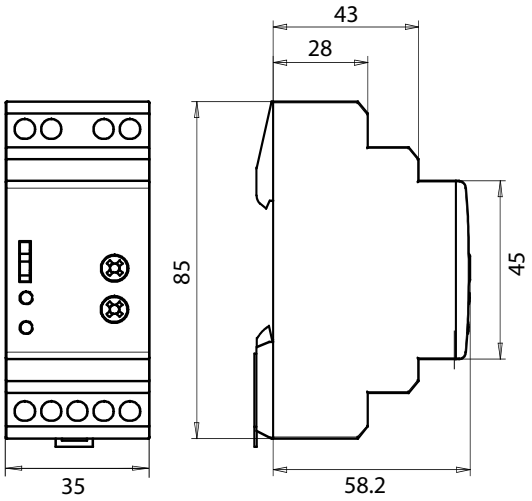
Settings



Technical Data

Bus system	Saia® S-Bus
Transmission rate	9600-19 200-28 800-33 600-56 600
Transmission mode	Data
Maximum bus length	1200 m (without repeater)
Response time (until system response)	Write: 30 ms Read: 10 ms
Recovery time	30 ms
Data transfer	Only "read/write" register instructions are recognized. Only one register can be read/written. The unit will not respond for unidentified queries. "Automatic transmission rate" is the default setting. The module has a voltage monitoring system. In the event of power failure the registers are saved in an EEPROM (S0 number of registers, transmission rate, etc.)
Protection type	IP 40 (IP 20 connections)
Operating voltage	230 VAC (-20/+15%)
Current consumption	< 12 mA
Power consumption	< 3 W
Transmission distance	Maximum 1000 m (with 30 V/20 mA)
LEDs	Operation display: green LED (on)
	Function display: red LED during bus activity
Mounting	On DIN rail 35 mm (IEC 50 022), any position
Terminals	For Pozidrive, Phillips or slotted-head screwdrivers no. 1 S0x, S-Bus, 230 VAC - 0.5…2.5 mm²
Ambient temperature	Temperature -20°C…+55°C
	Storage temperature -25°C…+70°C
EMC/resistance to interference	Surge voltage in accordance with IEC 61 000-4-5 on primary circuit, 4 kV
	Surge voltage in accordance with IEC 61 000-4-5 at S0 inputs, 1 kV
	Burst voltage in accordance with IEC 61 000-4-4, primary circuit 4 kV direct, S0 inputs 2 k VCApacitive, S-Bus connections 1 k VCApacitive
	ESD in accordance with IEC 61 000-4-2, contact 8 kV, air 8 kV
Insulation characteristics	4 kV/50 Hz test in accordance with VDE 0435
	6 kV 1.2/50 µs surge voltage in accordance with IEC 60 947-1
	Equipment class II
S0 input	Corresponds to S0 standard 62053-31
	Counts the impulses as '0' if RL is < 800 Ω and as '1' if R is > 1 MΩ .
	Maximum voltage (GND-S0): 13 VDC
	Maximum power, (in the event of a short circuit): 6 mA
	Low impulse: min. 30 ms
	High impulse: min. 30 ms
	Maximum frequency: 17 Hz

Dimension diagrams



Connection diagram