E-Line – PCD1.G1100
Light and shade module

The module compatible with an electrical control cabinet with a casing width of 35 mm (2 TE) is controlled via RS-485 and allows light and shade control. In addition to two analogue outputs and two relay outputs, it features four digital inputs. Optionally, the user can use the relays for direct switching of two light groups or for controlling a roller blind. With the integrated current load measurement, roller blinds can be positioned and defects located. The user can use the digital outputs to connect electrical switches. All inputs / outputs are available to the PLC program at all times via the communication interface.

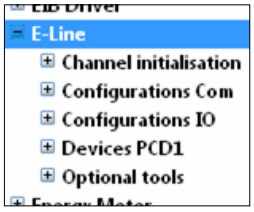
Features

- 4 digital inputs
- 2 relays including current detection
- 2 analogue outputs
- galvanic isolation between supply, bus and I/Os
- plug-in connection terminals, protected by flaps
- status LEDs on the front
- RS-485, USB and NFC interfaces
- Configuration and control by means of FBoxes

FBoxes

There are FBoxes available for every type of module:

- „Configuration FBoxes“ for configuration.
- „Device FBoxes“ for reading and writing individual inputs/ outputs.



Service interfaces

The following interfaces are available for the purposes of configuration and parameterisation, visualisation and manual control:

- NFC (near field communication)
- USB (Micro USB)

Technical data

Power supply

Supply voltage	Nominal 24 VAC (50 Hz) or VDC 24 VDC, -15/+20 % max. incl. 5 % ripple 24 VAC, -15 %/+10 % (complies with EN/IEC 61131-2)
Galvanic isolation	500 VDC between power supply and RS-485, and between power supply and inputs/outputs
Power input max.	2 W

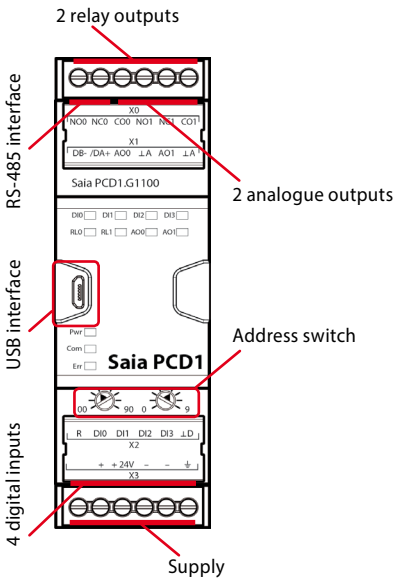
Interfaces

Communication interface	RS-485 with galvanic isolation Baud rate: 9'600, 19'200, 38'400, 57'600, 115'200 BpS
Address switch for S-Bus address	Two rotary switches 0…9
Service interface	USB (Micro USB) NFC (near field communication)

General data

Ambient temperature	Operation: 0…+55°C without forced ventilation Storage: –40…+70°C

Wiring connection diagram



Input/output configuration

Digital inputs

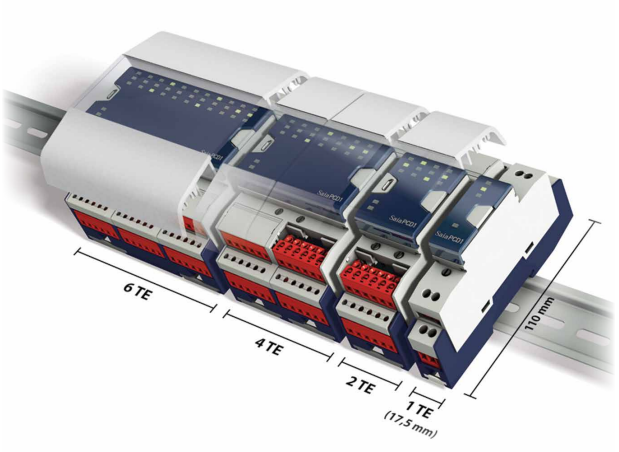
Number	4
Input voltage	24 VAC / VDC
Input delay (DC)	Adjustable 0.2 ms or 8 ms

Relay outputs (inrush)

Number	2
Switching voltage max.	250 VAC / 30 VDC
Switching voltage max.	8 AAC (AC1) 8 ADC (Resistive load)
Inrush current max.	15 A
Contact protection	none
Current measurement	≥ 200 mA, resolution 100 mA

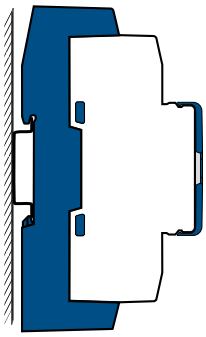
Analogue outputs

Number	2
Resolution	12 bit
Signal range	0…10 V (3.3 mA max.)



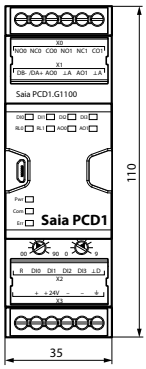
PCD1 E-Line product range

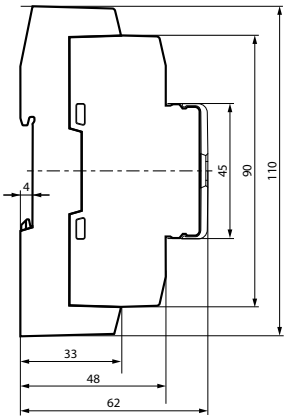
Mounting

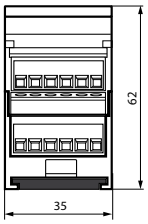


on top-hat rail 35 mm
(complies with DIN EN 60715 TH35)

Dimensions







Housing width 2 subunits (35 mm)
Compatible with electrical control cabinet
(as defined by DIN43880, frame size 2 × 55 mm)

Ordering information

PCD1.G1100	E-Line analogue/digital combined input/output module with galvanic isolation and software configurable inputs/outputs for light and shade.

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