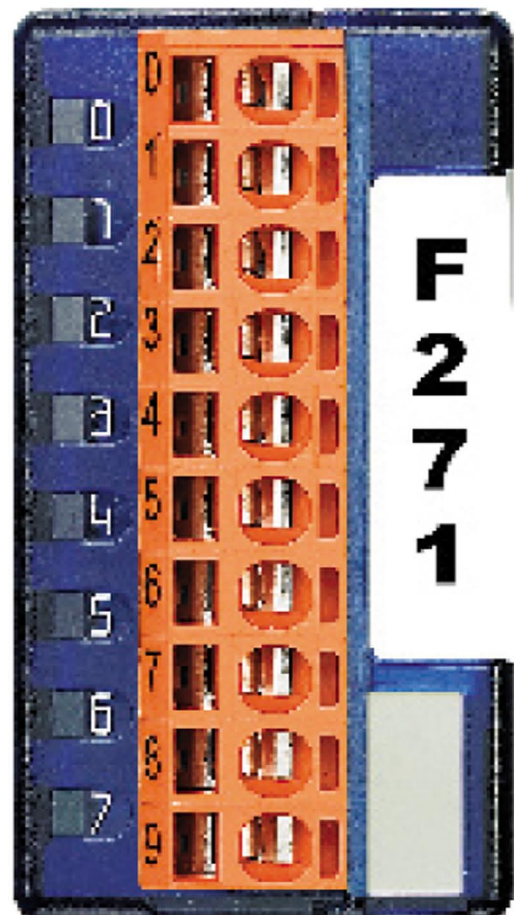
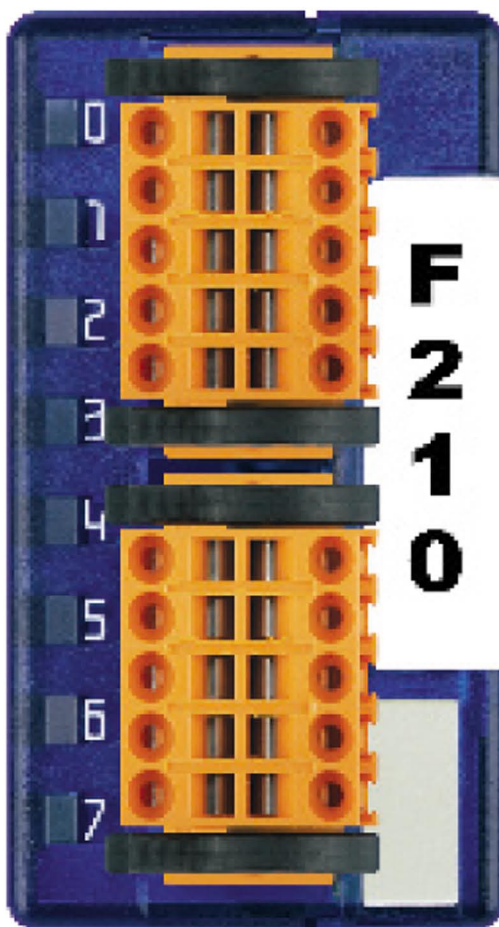


Saia® PCD3 System Interfacemoduler



Malthe Winje

08-594 118 30 www.mwa.se info@mwa.se

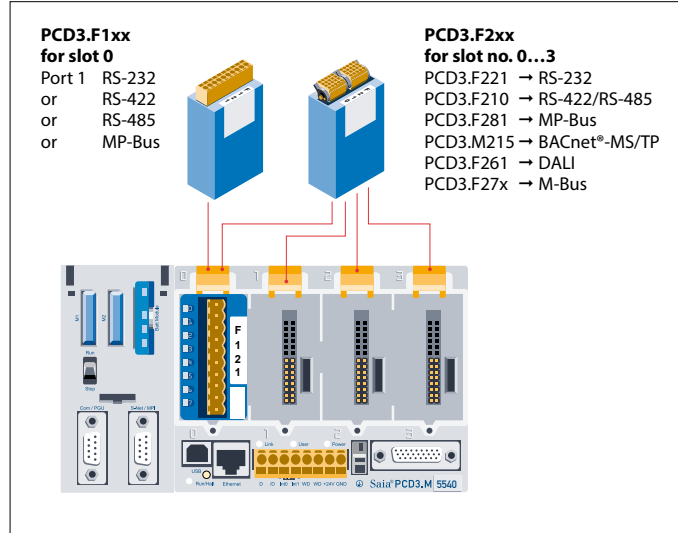
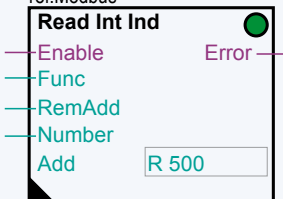
Communication interfaces of Saia® PCD3.Mxxxx controllers

In addition to the interfaces that the Saia® PCD3 has onboard, the interface functions can also be expanded by means of various slots. Numerous protocols are therefore supported by the PCD3. For the majority of protocols, the physical bus specifications are offered as a plug-in module. If this is not the case, the bus can be connected via an external converter.

Protocols supported by PCD3.Mxxxx via FBoxes

- ▶ Modem communication with the PCD
- ▶ S-Bus
- ▶ Modbus
- ▶ JCI N2-Bus
- ▶ KNX® S-Mode/EIB (with external converter)
- ▶ DALI
- ▶ EnOcean (with external converter)
- ▶ M-Bus
- ▶ BACnet® MS/TP
- ▶ HMI editor applications with PCD7.Dxxx text terminals (RS-232 only)

ref.Modbus



Physical interfaces that can be freely programmed

Module	Specifications	Slot	Internal current draw	
			5V	+V (24V)
PCD3.F110	RS-422 with RTS/CTS or RS-485 (electrically connected), with activatable terminating resistors.	I/O 0	40 mA	---
PCD3.F121	RS-232 with RTS/CTS, DTR/DSR, DCD	I/O 0	15 mA	---
PCD3.F150	RS-485 electrically isolated, with activatable terminating resistors.	I/O 0	130 mA	---
PCD3.F210	RS-422 / RS-485 plus PCD7.F1xxS as an option	I/O 0...3	110 mA	---
PCD3.F221	RS-232 plus PCD7.F1xxS as an option	I/O 0...3	90 mA	---

Physical interfaces for specific protocols

Module	Specifications	Slot	Internal current draw	
			5V	+V (24V)
PCD3.F180	Belimo MP-Bus, for connecting up to 8 drives on one line	I/O 0...3	15 mA	15 mA
PCD3.F215	BACnet® MS/TP	I/O 0...3	110 mA	---
PCD3.F240*	LonWORKS®-Interface-Modul only for PCD3.M5xx6x	I/O 0...3	90 mA	---
PCD3.F261	DALI	I/O 0...3	90 mA	---
PCD3.F270	M-Bus 240 nodes	I/O 0...3	70 mA	8 mA
PCD3.F271	M-Bus 20 nodes	I/O 0...3	70 mA	8 mA
PCD3.F272	M-Bus 60 nodes	I/O 0...3	70 mA	8 mA
PCD3.F273	M-Bus 120 nodes	I/O 0...3	70 mA	8 mA
PCD3.F281	Belimo MP-Bus with slot for PCD7.F1xxS modules	I/O 0...3	90 mA	15 mA

System properties of PCD3.F2xxx modules:

The PCD3 system has a processor, who handles both the application and the serial ports. To determine the maximum communication capacity for each PCD3.M5xxx system, consult the information and examples provided in Manual 26-789 for PCD3.M5xxx.

Interface modules for optional insertion in PCD3.F2xx modules

Module	Specifications
PCD7.F110S	RS-422 with RTS/CTS or RS-485 (electrically connected), with activatable terminating resistors.
PCD7.F121S	RS-232 with RTS/CTS, DTR/DSR, DCD. Suitable for modem connection and EIB connection.
PCD7.F150S	RS-485 (electrically isolated), with activatable terminating resistors.
PCD7.F180S	Belimo® MP-Bus, for connecting up to 8 drives on one line



* In preparation, see section C2 Product status