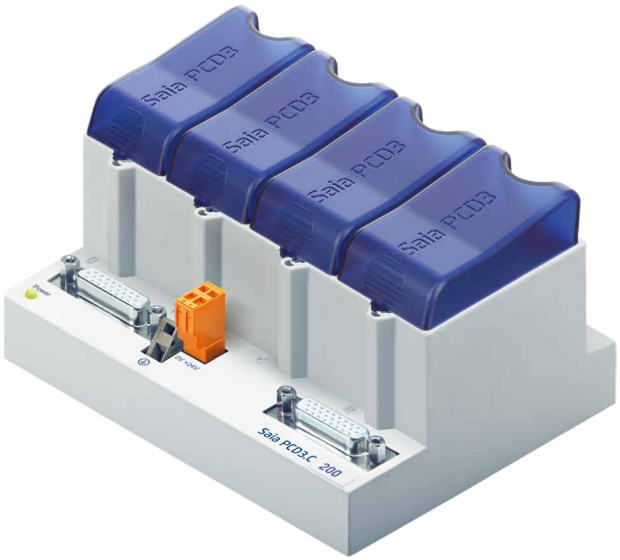
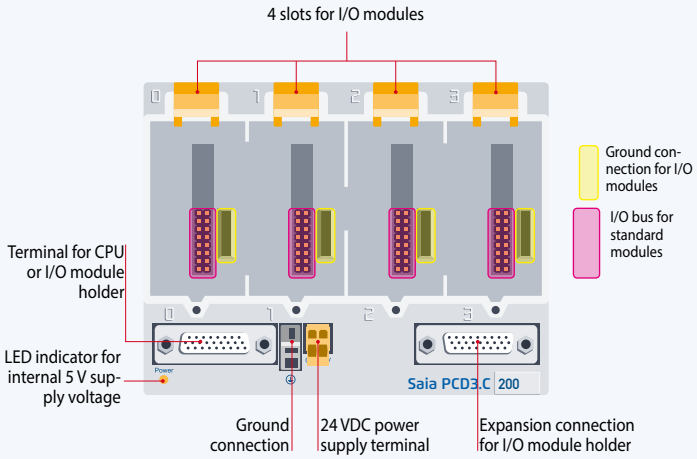
PCD3.C200

Extension module holder for 4 I/O modules



The PCD3.Mxxxx controllers can be expanded with PCD3.Cxxx components, making additional module sockets available. On the PCD3.Mxxx0, up to 15 PCD3.Cxxx module holders can be attached (PCD3.M3020/3120 cannot be expanded). This allows the user to attach a maximum of 64 I/O modules, or 1023 digital inputs/outputs.

Device design

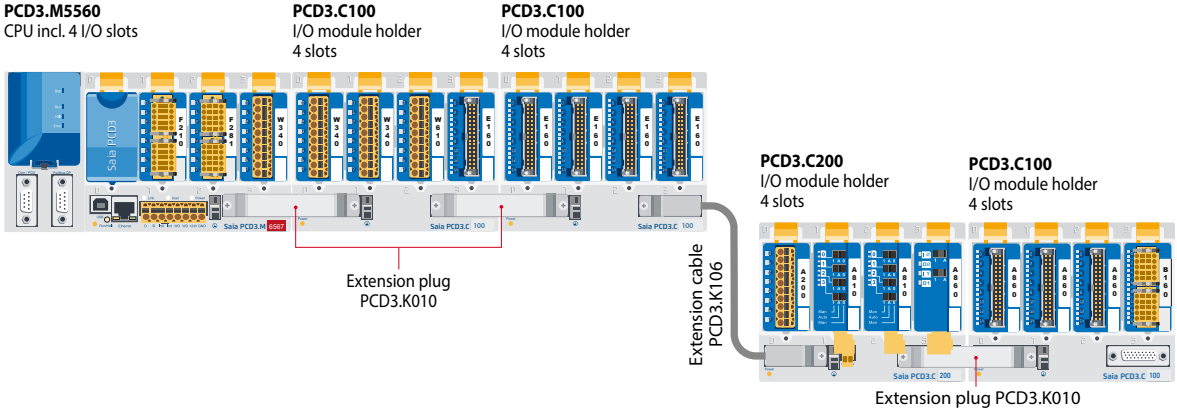


All standard I/O modules can be used in the expansion module holders. Communication modules or other intelligent modules can only be used in the slots of the Basic CPU.

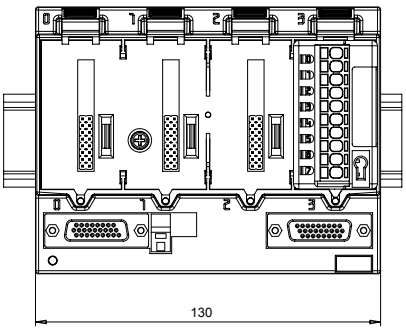
Available types

- PCD3.C100 Expansion module holder with 4 I/O slots
- PCD3.C110 Expansion module holder with 2 I/O slots
- PCD3.C200 Expansion module holder with 4 I/O slots and terminal connectors for 24 VDC power supply for all connected I/O modules, plus any downstream PCD3.C1xx module holders

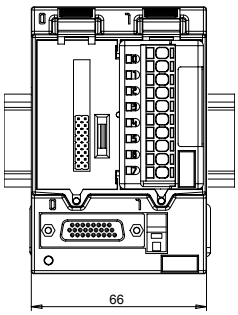
Example with 3 PCD3.C100 extension module holders

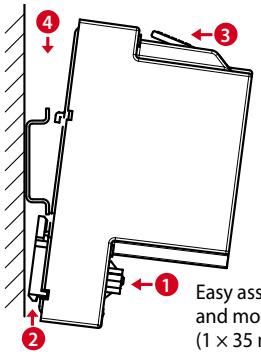


PCD3.C100/200 with 4 I/O slots



PCD3.C110
with 2 I/O slots





Easy assembly of the CPUs and module holders on DIN rail (1 × 35 mm)

The following aspects should be considered when planning PCD3 applications:

- In keeping with lean automation, it is recommended to leave the first slot in the CPU basic module free for any subsequent expansions. Both single I/O modules and communication modules can be used in this slot.
- The total length of the I/O bus is limited by technical factors; the shorter, the better.

The PCD3.C200 is used to extend the I/O bus or for the internal power supply (+5V and +V (24V)) to a module segment. Please note the following rules:

- Do not use more than six PCD3.C200s in a single configuration, or the time delay will exceed the I/O access time.
- Use a maximum of five PCD3.K106/116 cables.
- Insert a PCD3.C200 after each cable (at the start of a row). Exception: In a small configuration with no more than 3 PCD3.C1xxs, these can be supplied from the PCD3.Mxxx. A PCD3.C200 is not required.
- If an application is mounted in a single row (max. 15 module holders), then after five PCD3.C100 a PCD3.C200 must be used to amplify the bus signal (unless the configuration ends with the fifth PCD3.C100).
- If the application is mounted in multiple rows, the restricted length of cable means that only three module holders (1× PCD3.C200 and 2× PCD3.C100) may be mounted in one row.

I/O modules and I/O terminal blocks may only be plugged in and removed when the Saia PCD® and the external +24 V are disconnected from the power supply.

EAC Mark of Conformity for Machinery Exports to Russia, Kazakhstan or Belarus.

Ordering information

Type	Short description	Description	Weight
PCD3.C200	PCD3.C200 for 4 modules	Extension module holder for 4 I/O modules with terminal connectors for external 24 VDC power supply	440 g

Accessories

Type	Short description	Description	Weight
PCD3.K010	Connection plug PCD3.M/T/C to PCD3.Cxx0	Connection plug PCD3.M/T/C to PCD3.Cxx0	40 g
PCD3.K106	Extension cable 0.7 m	Extension cable PCD2.M4560 to PCD2.Cx000, PCD3.M/T/C to PCD3.Cxx0 or PCD2.C1000/..C2000 to PCD2.C1000/..C2000 (length 0.7 m)	140 g
PCD3.K116	Extension cable 1.2 m	Extension cable PCD2.M4560 to PCD2.Cx000, PCD3.M/T/C to PCD3.Cxx0 or PCD2.C1000/..C2000 to PCD2.C1000/..C2000 (length 1.2 m)	180 g
PCD2.K106	Extension cable 0.9 m	Extension cable for PCD2.M5x40 to PCD2.C1000/..C2000 or PCD3.Cxx0 (length 0.9 m - from version C)	100 g

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