SAIA PCD2.C100

Eight-socket PCD2 I/O expansion housing / product-page summary

The offered reference

SAIA PCD2.C100 is an eight-socket expansion housing for compatible PCD2.Mxx0 controllers. A 26-core extension cable connects the base unit to additional I/O module positions.

Identity	Engineering scope
Full reference	SAIA PCD2.C100
Function	Eight-position I/O expansion housing; controller CPU remains in the base
Connection	26-core expansion bus to a compatible PCD2.Mxx0 base
Availability	Quantity and dispatch date confirmed in the quotation

System fit in brief

Base CPU

Identify the installed PCD2.Mxx0 controller and permitted expansion configuration.

I/O modules

Plan positions 8–15, excluding W/H types from socket 15.

Bus link

Choose K100 or K110 for the documented mount direction; verify any K120 use.

Technical profile

Confirmed expansion and cable values

Documented technical data

Parameter	Source-supported value
I/O module sockets	8
Expansion socket range	8–15, clockwise
Base CPU socket range	0–7, clockwise
Bus cable conductors	26
Below-mounted cable	PCD2.K100 · 0.5 m
Side-by-side cable	PCD2.K110 · 0.7 m
Special-use cable	PCD2.K120 · 2 m; specified applications
W/H restricted socket	15 (W and H modules excluded)
Illustrated base CPUs	PCD2.M120 / M150 / M170 / M480

Base-to-expansion path

PCD2.Mxx0 base
Sockets 0–7

26-core bus
K100 / K110; K120 special use

PCD2.C100
Sockets 8–15

The base controller and installed I/O modules set the actual system limits. W and H module types are excluded from C100 socket 15.

Integration and care

Where the housing fits and what to inspect

Application paths

Additional field inputs

Populate documented E-module positions after mapping each channel to the existing controller program and terminal schedule.

Additional field outputs

Plan A-module output wiring, load isolation and commissioning tests against the cabinet electrical drawings.

Analog and specialty I/O

Place W and H modules only in allowed positions; reserve socket 15 for a module type permitted there.

Cabinet extension layout

Select beneath or side-by-side mounting with the correct 26-core cable, then verify clearance and cable bend path.

Essential precautions

Isolate the controller

De-energize the installed PCD2 system and follow the cabinet isolation procedure before mounting or reseating the bus link.

Check the exact housing

Verify PCD2.C100 on the label; PCD2.C150 is a four-position variant with a different capacity.

Select the bus cable

Use the cable arrangement specified for the mounting orientation and controller; keep the 26-core link fully seated.

Respect socket 15

Do not place a W or H module in PCD2.C100 position 15; review separate restrictions for T8xx modems.

Map the I/O program

Compare physical positions 8–15 with address assignments, terminal labels and the saved controller project.

Prove each channel

After controlled power-up, verify controller recognition, input state and output response one channel group at a time.

Reference, FAQ and enquiry

Review the complete marking before ordering

Lifecycle and scope

PCD2.C100 status

A current lifecycle phase for the exact SAIA PCD2.C100 has not been confirmed.

Support and replacement

Expansion planning should follow the installed PCD2 CPU, socket map and 26-core bus-cable arrangement. A PCD2.C150 four-slot housing is a different configuration; any replacement needs a system design check.

Apter Power availability

The offered unit quantity and dispatch date are confirmed separately in the quotation.

Technical source

Saia-Burgess Controls PCD1 / PCD2 Series Manual, document 26/737 EN24 (2014-07-30), expansion housings and bus cables section; PCD2.C100 is named explicitly.

Engineering questions

How is PCD2.C100 distinguished from PCD2.C150 in a retrofit?

Read the full housing label and count positions: PCD2.C100 has eight expansion sockets, whereas PCD2.C150 has four. Reconcile the cabinet layout, bus cable and controller project before substituting either housing.

Which cable should connect PCD2.C100 beneath its base controller?

The manual shows PCD2.K100 for an under-mounted PCD2.C100. Confirm the actual base-controller model, cable route and mating connectors before energizing the assembly.

Which cable should connect PCD2.C100 beside its base controller?

The manual shows PCD2.K110 for the side-by-side arrangement. Check orientation and cable seating, then verify that the CPU recognizes the intended expansion positions.

Related SAIA catalogue references

Related product codes for identification; verify controller, module and cable fit.

SAIA PCD2.M170
PCD2 controller

SAIA PCD2.C150
Four-socket expansion

SAIA PCD2.K100
Below-mounted cable

SAIA PCD2.K110
Side-by-side cable

SAIA PCD2.E110
Digital input module

SAIA PCD2.A400
Digital output module

Product enquiry

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