Low-cost input module for source or sink operation with 8 inputs, electrically connected. Suitable for most electronic and electromechanical switching elements at 24 VDC.

**Technical data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of inputs</td>
<td>8, electrically connected source or sink operation</td>
</tr>
<tr>
<td>Input voltage</td>
<td>24 VDC (15 … 30 VDC) smoothed or pulsed</td>
</tr>
<tr>
<td>Input current:</td>
<td>6 mA at 24 VDC</td>
</tr>
<tr>
<td>Input delay</td>
<td>typically 8 ms</td>
</tr>
<tr>
<td>Resistance to interference</td>
<td>2 kV under capacitive coupling (whole trunk group)</td>
</tr>
<tr>
<td>acc. to IEC 801-4</td>
<td></td>
</tr>
<tr>
<td>Internal current consumption</td>
<td>1 … 24 mA, typically 12 mA</td>
</tr>
<tr>
<td>(from +5 V bus)</td>
<td></td>
</tr>
<tr>
<td>Internal current consumption</td>
<td>0 mA</td>
</tr>
<tr>
<td>(from V+ bus)</td>
<td></td>
</tr>
<tr>
<td>External current consumption</td>
<td>max. 48 mA (all inputs = 1) from 24 VDC</td>
</tr>
<tr>
<td>Terminals</td>
<td>Plug-in I/O spring terminal block, 10-pole up to 2.5 mm², labelled 0 to 9, connector type A</td>
</tr>
</tbody>
</table>

**LEDs and connection terminals**

- **LEDs 0…7**
  - Terminal 0
  - Terminal 9
  - Description
  - Label
  - Address
  - Label

**Diagram:**

- PCD3.E110
  - 8 Inputs, 24 VDC
  - 8 ms
  - Source- and sink operation

---

Saia-Burgess Controls AG
Input circuits and terminal designation

**Source operation (positive logic):**

Load resistors | Input filter | Threshold switch
---|---|---
4k7 | 10k | LED

I/O Bus Interface → PCD Bus

* (Us) at input
Switch closed: Input state "H" = LED on
Switch open: Input state "L" = LED off

**Sink operation (negative logic):**

Load resistors | Input filter | Threshold switch
---|---|---
4k7 | 10k | LED

I/O Bus Interface → PCD Bus

* (Us) at input
Switch closed: Input state "L" = LED on
Switch open: Input state "H" = LED off

---

**Watchdog:** This module can be used on all base addresses; there is no interaction with the watchdog on the CPUs.

**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.**

**Further information can be found in the document:**
"27-600 ENG Manual I/O-Modules for PCD1 / PCD2 and PCD3"
**ATTENTION**

These devices must only be installed by a professional electrician, otherwise there is the risk of fire or the risk of an electric shock.

**WARNING**

Product is not intended to be used in safety critical applications, using it in safety critical applications is unsafe.

**WARNING - Safety**

The unit is not suitable for the explosion-proof areas and the areas of use excluded in EN61010 Part 1.

**WARNING - Safety**

Check compliance with nominal voltage before commissioning the device (see type label).
Check that connection cables are free from damage and that, when wiring up the device, they are not connected to voltage.
Do not use a damaged device!

**NOTE**

In order to avoid moisture in the device due to condensate build-up, acclimatise the device at room temperature for about half an hour before connecting.

**CLEANING**

The device can be cleaned in dead state with a dry cloth or cloth soaked in soap solution.
Do not use caustic or solvent-containing substances for cleaning.

**MAINTENANCE**

These devices are maintenance-free. If damaged during, no repairs should be undertaken by the user.

**GUARANTEE**

Opening the module invalidates the guarantee.

Observe this instructions (data sheet) and keep them in a safe place.
Pass on the instructions (data sheet) to any future user.

WEEE Directive 2012/19/EC Waste Electrical and Electronic Equipment directive

The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Short description</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCD3.E110</td>
<td>8 digital inputs module,</td>
<td>Digital input module, 8 inputs, 24 VDC, source and sink operation, 8 ms input delay, connection with pluggable spring terminals, plug-in type A (4 405 4954 0) included</td>
<td>80 g</td>
</tr>
</tbody>
</table>

### Order details accessories

<table>
<thead>
<tr>
<th>Type</th>
<th>Short description</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 405 4954 0</td>
<td>Plug-in, type A</td>
<td>Plug-in I/O spring terminal block, 10-pole up to 2.5 mm², labelled 0 to 9, connector type A</td>
<td>15 g</td>
</tr>
</tbody>
</table>