**PCD3.E112**
8 digital inputs, 12 VDC, 9 ms, source- and sink operation

Low-cost input module for source or sink operation with 8 inputs, electrically connected. Suitable for most electronic and electromechanical switching elements at 12 VDC.

### Technical data

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</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>12 VDC (7.5 … 15 VDC) smoothed, max. 10 % ripple</td>
</tr>
<tr>
<td>Input current:</td>
<td>6 mA at 12 VDC</td>
</tr>
<tr>
<td>Input delay</td>
<td>typically 9 ms</td>
</tr>
<tr>
<td>Resistance to interference acc. to IEC 801-4</td>
<td>2 kV under capacitive coupling (whole trunk group)</td>
</tr>
<tr>
<td>Input current consumption (from +5 V bus)</td>
<td>1… 24 mA, typically 12 mA</td>
</tr>
<tr>
<td>Internal current consumption (from V+ bus)</td>
<td>0 mA</td>
</tr>
<tr>
<td>External current consumption</td>
<td>max. 48 mA (all inputs = 1) from 12 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 (4 405 4954 0)</td>
</tr>
</tbody>
</table>

### LEDs and connection terminals

![LEDs and connection terminals diagram](image-url)
Output circuits and terminal designation

Source operation (positive logic):

Load resistors
Input filter
Threshold switch
LED

E1
4k7
10k

10k
4k7

Ue : 12 VDC

Switch closed : Input state "H" = LED on
Switch open : Input state "L" = LED off

Sink operation (negative logic):

Load resistors
Input filter
Threshold switch
LED

E0
4k7
10k

10k
4k7

Ue : 12 VDC

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.
For details, see document "27-600 Manual I/O-Modules for PCD1 / PCD2 and PCD3", chapter "A4 Hardware Watchdog". It describes the correct use of the watchdog in conjunction with PCD components.

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 Manual I/O-Modules for PCD1 / PCD2 and PCD3"

Ordering information

<table>
<thead>
<tr>
<th>Type</th>
<th>Short description</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCD3.E112</td>
<td>8 digital inputs module, 12 VDC, 9 ms</td>
<td>Digital input module, 8 inputs, 12 VDC, source and sink operation, 9 ms input delay, connection with pluggable spring terminals, plug-in type A, (4 405 4954 0) included</td>
<td>80 g</td>
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</table>

Ordering information equipment

<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>