

# PCD3.E610

**8 digital inputs, 24 VDC, 10 ms, electrically isolated, source- or sinkoperation**

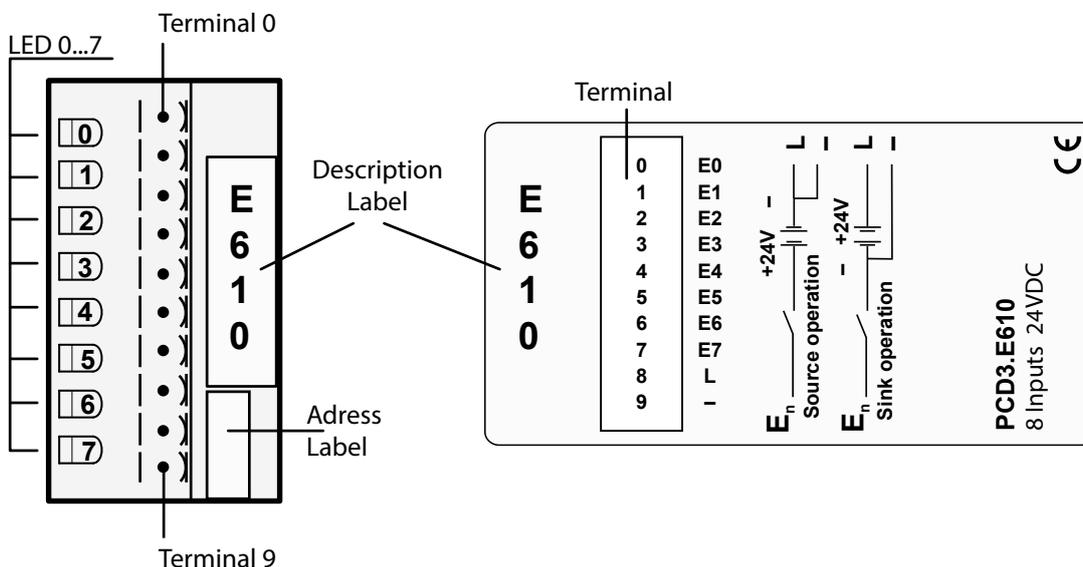
Input module for source or sink operation with 8 inputs, electrically isolated by optocoupler. Suitable for most electronic and electromechanical switching elements at 24 VDC.

Technical data	
Number of inputs	8 electrically isolated by optocoupler, source or sink operation, all inputs to the model in the same phase, the channels are not isolated from each other
Input voltage	24 VDC (15 ... 30 VDC) smoothed or pulsed
Supply voltage - for source operation - for sink operation	min. 15 VDC min. 15 VDC
Input current at input voltage 24 VDC - for source operation: - for sink operation:	5 mA 3.7 mA
Input delay - off > on - on > off	10 ms 10 ms
Resistance to interference acc. to IEC 801-4	4 kV under direct coupling 2 kV under capacitive coupling (whole trunk group)
Isolation voltage: - Electrical isolated - Optocoupler	1 000 VAC, 1 min. 2,5 kV
Consumption interne - à partir du bus +5 V - à partir du bus V+	1 ... 24 mA, typical 12 mA 0 mA
External current consumption	max. 40 mA (source operation) max. 18 mA (sink operation)
Terminals	Plug-in I/O spring terminal block, 10-pole up to 2.5 mm <sup>2</sup> , labelled 0 to 9, connector type A



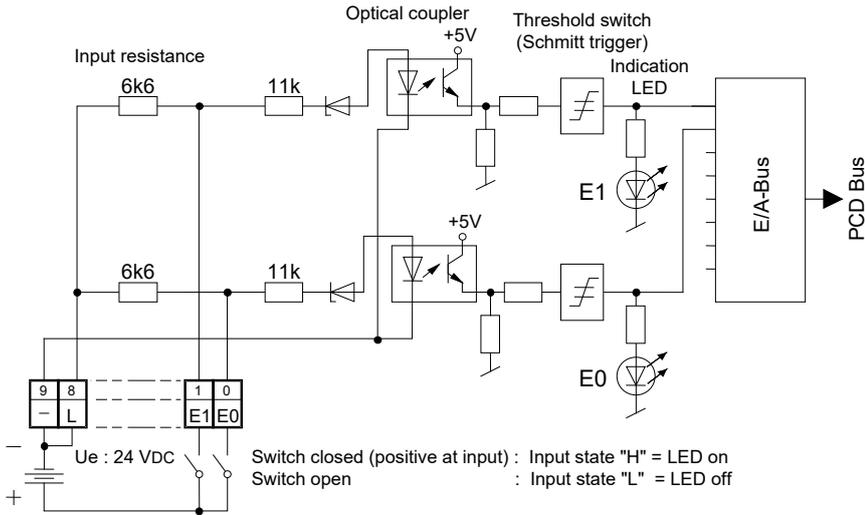
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### LEDs and connection terminals

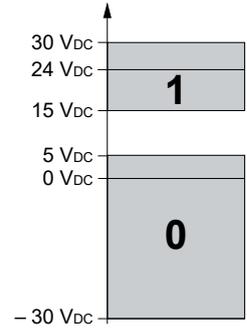


### Input circuits and terminal designation

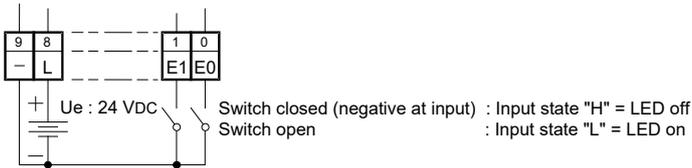
Source operation (positive logic):



Input level



Sink operation (negative logic):



	<p><b>Watchdog:</b> 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.</p>
	<p>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.</p>
	<p>The channels are not isolated from each other.</p>
	<p>Further information can be found in the document: "27-600 ENG Manual I/O-Modules for PCD1 / PCD2 and PCD3"</p>

**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.



PCD3.E610



4 405 4954 0

### Order details

Type	Short description	Description	Weight
PCD3.E610	8 digital inputs module with galvanic isolation, 24 VDC, 10 ms	Digital input module, 8 inputs, 24 VDC, with galvanic isolation, source and sink operation, 10 ms input delay connection with pluggable spring terminals, plug-in type A included	80 g

### Order details accessories

Type	Short description	Description	Weight
4 405 4954 0	Plug-in, type A	Plug-in I/O spring terminal block, 10-pole up to 2.5 mm <sup>2</sup> , labelled 0 to 9, connector type A	15 g