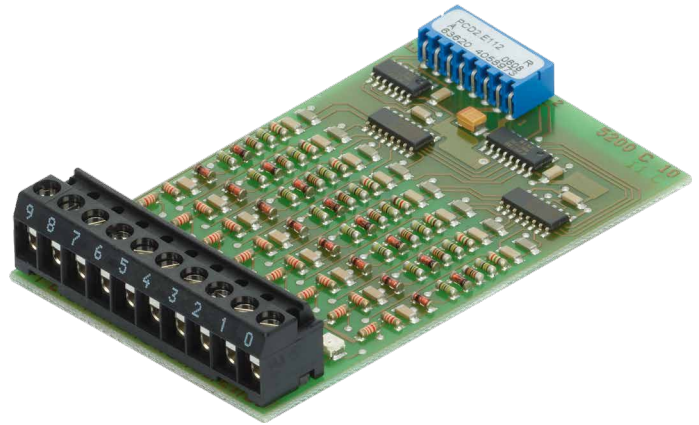**sbc✛**
SAIA BURGESS CONTROLS

PCD2.E112

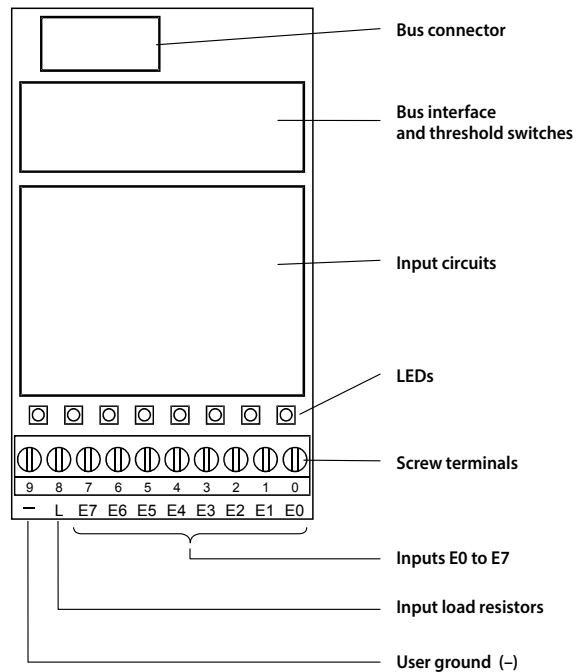## 8 digital inputs, electrically connected, source or sink operation

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

Number of inputs	8 electrically connected, source or sink operation
Input voltage	12 VDC (7.5…15 VDC) smoothed, max. 10 % residual ripple
Input current	6 mA at 12 VDC
Input delay	typically 9 ms
Resistance to interference acc. to IEC 801-4	2 kV under capacitive coupling (whole trunk group)
Internal current consumption (from +5 V bus)	1…24 mA; typically 12 mA
Internal current consumption (from V+ bus)	0 mA
External current consumption	max. 48 mA (all inputs=1) at 12 VDC
Terminals	Pluggable 10-pole screw terminal block (4 405 4847 0), for wires up to 1.5 mm^2

LEDs and connection terminals

- Bus connector
- Bus interface and threshold switches
- Input circuits
- LEDs
- Screw terminals
- Inputs E0 to E7
- Input load resistors
- User ground (−)

Terminals: 9 8 7 6 5 4 3 2 1 0
− L E7 E6 E5 E4 E3 E2 E1 E0

! Watchdog: This module can be used on all base addresses; there is no interaction with the watchdog on the CPUs. For details, please refer to the "Watchdog" section of the manual 26-856_ENG, which describes the correct use of the watchdog in conjunction with PCD2 components.
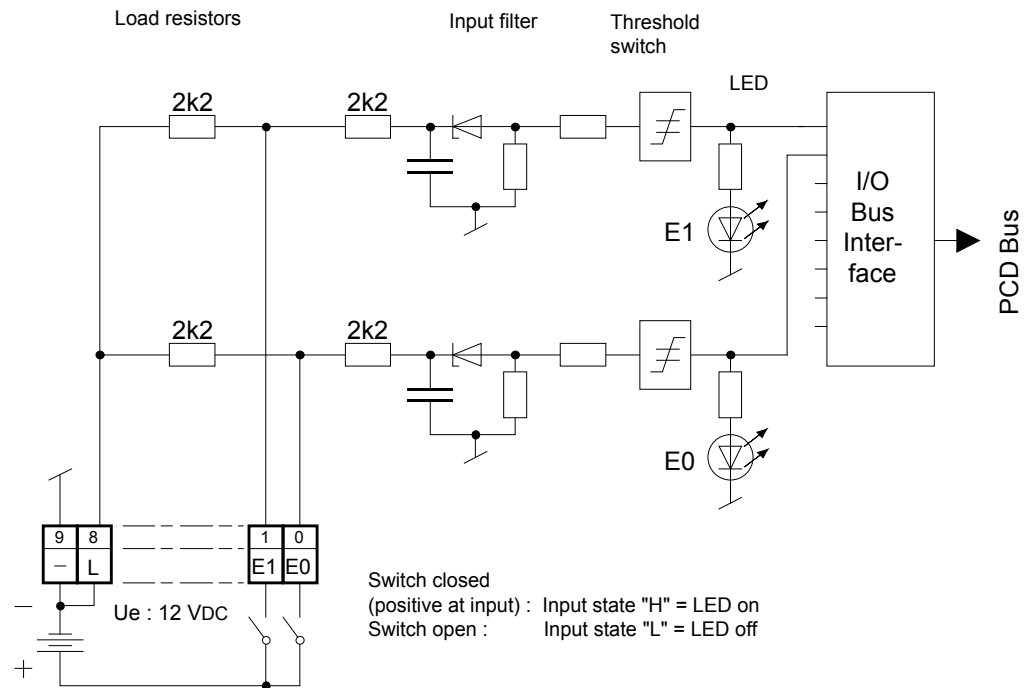
! I/O modules and I/O terminal blocks may only be plugged in and removed when the Saia PCD® and the external +12 V are disconnected from the power supply.
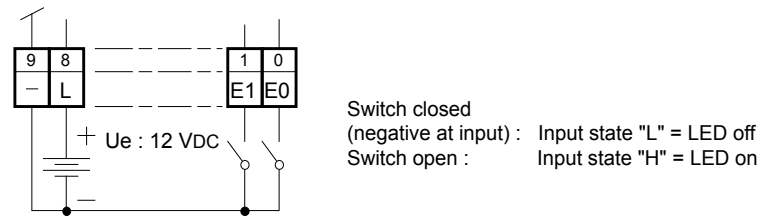
i Information to connection cables can be found in the Manual on "System cables and connection system" 26-792_ENG.

Output circuits and terminal designation

Source operation (positive logic):

Load resistors   Input filter   Threshold switch

2k2   2k2   LED

2k2   2k2

E1

E0

I/O Bus Inter-face

PCD Bus

| 9 | 8 | | 1 | 0 |
| − | L | | E1 | E0 |

Ue : 12 VDC

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

Sink operation (negative logic):

| 9 | 8 | | 1 | 0 |
| − | L | | E1 | E0 |

Ue : 12 VDC

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

Ordering information

Type	Short description	Description	Weight
PCD2.E112	8 digital inputs, electrically connected, source or sink operation	Digital input module, 8 inputs, 12 VDC, source and sink operation, 9 ms input delay	35 g

Accessories

Type	Short description	Description	Weight
PCD2.K261/K263	Sheathed, round cable with 10 strands of 0.5 mm². length PCD2.K261 = 1,5 m length PCD2.K273 = 3 m	Plug-in system cable for digital modules with 4, 6 or 8 I/Os or relay interface PCD2.K55x. PCD side: 10-pole, plug-in screw terminal block Process side: strand ends free, numbered	140 / 260 g
PCD2.K271/K272	Sheathed, shielded cable with 10 strands of 0.25 mm². length PCD2.K271 = 1,5 m length PCD2.K273 = 3 m	Plug-in system cable for analogue I/O modules and ..H modules. Sheathed, screened, round cable; PCD side: 10-pole, plug-in screw terminal block P rocess side: strand ends free, numbered	100 / 290 g