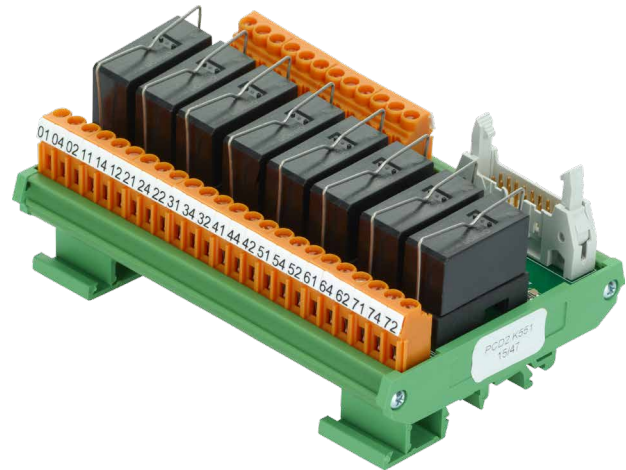


PCD2.K551

Relay interface module for 8 transistor outputs, with LEDs



Relay interface to PCD2/3.A460 with 8 plug-in relays. The logical state of the relay is displayed with a LED:

- Relay switched on LED on
- Relay switched off LED off

PCD end: 16-pole ribbon connector I/O (or 12 screw terminals J1)

Process end: 24 screw terminals 0.5...1.5 mm²

Switching capacity of the changeover contacts:
10 A / 250 VAC or 10 A / 24 VDC (ohmic)

Mechanical data

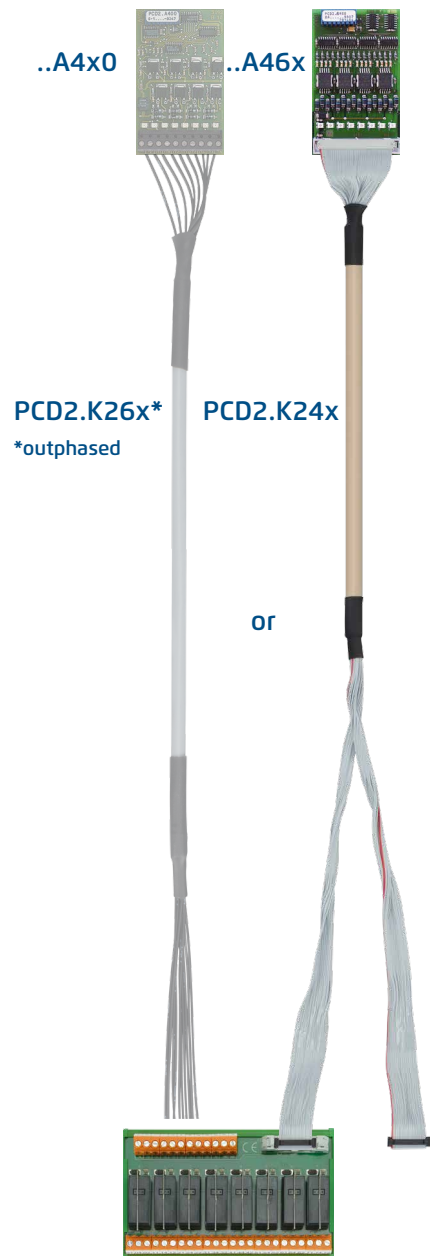
Diameter of the screw terminals: M 2.6 mm

Starting torque: 0.4 Nm

Pre-assembled system cables and terminal adapter modules support the fast integration of the integration of the Saia PCD® I/O modules into the switch cabinet. I/O modules with ribbon connections, in particular, can be installed quickly and easily in the switch cabinet. The modules with terminals can also be connected to the adapters using traditional stranded wires. The adapters either are available for galvanic separation of the outputs with relays or as simple I/O adapters with voltage distribution.

To facilitate and speed up the installation of controllers, various adapters are available that can be connected direct to the Saia PCD® I/O modules via system cables.

Example with PCD2.K551:



Data for relay type G2RL-1 (extracted from manufacturer's data sheet):

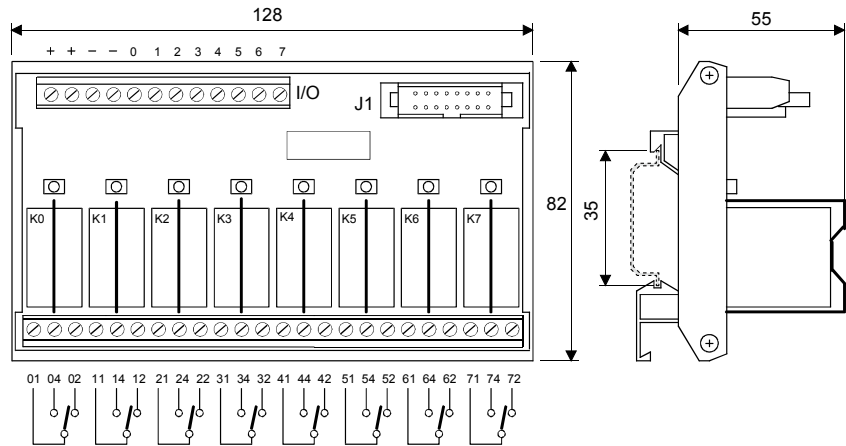
	Value
Input voltage	24 VDC
Input current	31 mA
Max. switching voltage	440 VAC / 300 VDC
Nominal current	12 A
Max. load with cos φ = 1	3000 VA (AC) / 360 W (DC)
Max. load with cos φ = 0.4	1250 VA (AC) / 150 W (DC)
Min. load	100 mA / 5 VDC
Switch-on delay t _{ON}	max. 15 ms
Switch-off delay t _{OFF}	max. 5 ms
Contact coil isolation	5 kVAC
Isolation between contacts	1 kVAC
Mech. lifetime (relays)	20 × 10 ⁶ cycles
Electr. lifetime (relays)	50,000 cycles at 12 A/250 VAC, cos φ = 1
Max. switching cycles, mechanical:	18,000 cycles/hour
electrical:	1800 cycles/hour at nominal load
Ambient temperature	-40°C ... + 85°C

Type and item number:

- Relay interface: PCD2.K551 with 8 G2RL-1 relays and LEDs
- Relays: G2RL-1, 24DC (OMRON) 91E025849
- Spring clip: EMR/15 91E025914

Colour coding and pin configuration:

J1	I/O
2	7
4	6
6	5
8	4
10	3
12	2
14	1
16	0
1/3/5/7	–
9/11/13/15	L/+



Installation instructions

For reasons of safety it is not permissible to connect low voltages (up to 50 V) and higher voltages (50 ... 250 V) to the same module.

If a Saia PCD® module is connected to a higher voltage (50 ... 250 V), approved components for this voltage must be used for all elements that are electrically connected to the system.

Using higher voltage (50 ... 250 V), all connections to the relay contacts must be connected on the same circuit, i.e. in such a way that they are all protected against one AC phase by one common fuse. Each load circuit may also be protected individually.



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.



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

Ordering information

Type	Short description	Description	Weight
PCD2.K551	Adapter relay interface	Relay interface module for 8 transistor outputs, with LEDs; PCD side: 16-pole ribbon connector Process side: 2 × 6 screw terminals	100 g

Accessories

Type	Short description	Description	Weight
PCD2.K241	Plug-in system cables for PCD2 I/O modules	Plug-in system cable for 2 terminal adapters PCD2.K51x or relay interface PCD2.K55x. Sheathed, half-round cable, length 1.0 m (type D); PCD side: 34-pole ribbon cable connector Process side: two 16-pole ribbon cable connectors	120 g
PCD2.K242	Plug-in system cables for PCD2 I/O modules	Plug-in system cable for 2 terminal adapters PCD2.K51x or relay interface PCD2.K55x. Sheathed, half-round cable, length 2.0 m (type D); PCD side: 34-pole ribbon cable connector Process side: two 16-pole ribbon cable connectors	200 g

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