PCD7.L252 Coupling Module

Describtion

These one-stage coupling modules are used for safe potential separation between logic and load. They are provided with a manual control facility with feedback signal

for the switch position and a LED for status indication.

These coupling modules are provided with spring clamp terminal blocks allowing easy and quick wire termination. No tool is required to terminate solid wires and stranded wires with end sleeves. And to terminate stranded wires without end sleeves just a screwdriver will do. The terminated wires are easy to release with a

Technical Data

Input

Operating voltage U_B
Power consumption at U_B
Operating voltage range Protective circuitry Indication of operating status Response time Release time

24 V AC/DC ca. 13 mA 0.85 ... 1.1×U_B free wheeling diode LED (green) about 10 ms about 5 ms

Switch

breaking capacity max. breaking capacity min. mechanical endurance test voltage

24 V / 50 mA AC/DC 20 mV / 1 µA AC 5 × 10² switchings 500 V, 50 Hz, 1 min.

Output material Contact material Switching voltage max. Making current (max. 4 s at 10 % ED) Continous current Breaking capacity (ohm resistive load)

AaSnO₂ 250 V AC/DC 8 A 24 V DC / 180 W 50 V DC / 65 W

1 changeover contact

Breaking capacity min. Mecanical endurance Electrical endurance at max. switching load 230 V DC / 50 W 250 V AC / 2000 VA 24 V DC/ 20 mA 2 × 10⁷ switching cycles

Switching frequency max at max. current

 1×10^5 switching cycles 300 switching cycles/h

Electric strength test voltage coil/contact test voltage open contact Rated surge voltage Uimp Isolation per VDE 0110

4000 V AC, 50 Hz, 1 min. 1000 V AC 4000 V

rated voltage overvoltage category pollution degree 250 V Ш

2

<u>Temperature Range</u> Operating temperature range −20 °C ... +55 °C −25 °C ... +70 °C Storage temperature range

Housing Type of protection (EN 60 529) IP20

polyamide 6.6 V0 Material

Wire cross section 0.08 ... 2.5 mm² solid wire 0.08 ... 2.5 mm² 0.08 ... 1.5 mm² stranded wire without end sleeve stranded wire with end sleeve Dimensions WxHxL 11.2 × 88 × 60 mm

Weight 43 g Mounting position

Mounting standard rail TH35 per IEC 60715

Mounting

On standard rail TH35 per IEC 60715 (35 \times 7.5 mm), $\,$ in junction boxes And/or distribution panels.





Electric installation and device termination shall be done by qualified persons only, by respecting the VDE specifications and local regulations.

1. Power down the equipment.

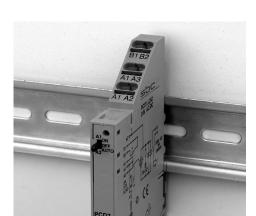




2. Strip the wire by 10 mm. Wire cross section: Solid wire 0.08 – 2.5 mm² Stranded wire w/o end sleeve 0.08 – 2.5 mm²

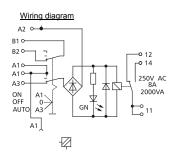
Stranded wire with end sleeve 0.08 - 1.5 mm²

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- a) Solid wires and wire with end sleeves are plugged directly Insert the wire straight into the contact and press until the wire snaps In the spring.
- b) When terminating stranded wires without end sleeves it is necessary to open the spring with a flat-bladed screwdriver (blade width max. 3.0 mm): enter the screwdriver to the test sleeve situated below the Contact and remove the screwdriver.

De	Wiring		
	В1	В2	A1 - A2 operating voltage A2 - A3 operating voltage B1 - B2 switching contact 11 - 12 - 14
	A1	АЗ	
	A1	A2	
			output contact 1 changeover contac



4. Release a wire

11 12

3.

Open the spring by inserting a flat-bladed screwdriver (blade width max. 3.0 mm to the test sleeve situated below the conact and remove the wire.



5. Release the Module from the standard rail

Slightliv push the clamp at the bottom of the module with a flat-bladed screwdriver and draw off upwards

Connecting Bridge

The connecting bridge (Order-Nr. PCD7.L291) allows to interconnect up to 10 coupling modules (total currenct max. 2 A).





Cut the needed number of contacts with wire cutting pliers at the respective predetermined cutting point. Then insert the connecting bridge from the top into the contact slot and press it downwards into place.







The tails of the connecting bridge carry potential, therefore place the bridge in the middle of the aligned modules to eliminate any accidential touch.

