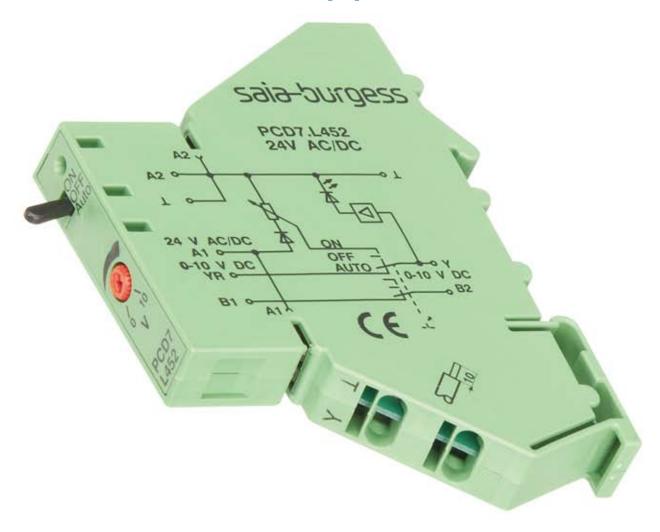


Saia® Hand / auto omkopplare





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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 24 V AC/DC Power consumption at U_B ca. 13 mA ca. 13 mA $_{\rm 0.85}$... 1.1 $U_{\rm B}$ free wheeling diode Operating voltage range Protective circuitry Indication of operating status LED (green) Response time about 10 ms Release time about 5 ms

Switch

24 V / 50 mA AC/DC breaking capacity max. breaking capacity min. mechanical endurance 20 mV / 1 μA AC 5 x 10² switchings test voltage 500 V 50 Hz 1 min

Output Output material 1 changeover contact Contact material AdSnO Switching voltage max. 250 V AC/DC Making current (max. 4 s at 10 % ED) 8 A 24 V DC / 180 W 50 V DC / 65 W Continous current Breaking capacity (ohm resistive load) 230 V DC / 50 W 250 V AC / 2000 VA Breaking capacity min. Mecanical endurance 24 V DC/ 20 mA 2 x 10⁷ switching cycles

Electrical endurance at max. switching load Switching frequency max. at max. current

300 switching cycles/h Electric strength test voltage coil/contact 4000 V AC 50 Hz 1 min. test voltage open contact 1000 V□AC Rated surge voltage Uimp Isolation per VDE 0110 4000 V

1 x 10⁵ switching cycles

rated voltage overvoltage category 250 V pollution degree

Temperature Range Operating temperature range -20 ℃ ... +55 ℃ Storage temperature range -25 ℃ ... +70 ℃

Housing Type of protection (EN 60 529) Material IP20 polyamide 6.6 V0

Wire cross section solid wire 0.08 - 2.5 mm² 0.08 - 2.5 mm² 0.08 - 1.5 mm² stranded wire without end sleeve stranded wire with end sleeve Dimensions WxHxL 11 2 x 88 x 60 mm 43 g

Weight Mounting position

Mounting standard rail TH35 per IEC 60715

Mounting

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





Installation

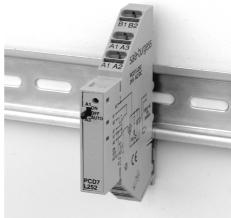
Electric installation and device termination shall be done by qualified persons only, by respecting the VDE specifications and local regulations.

1. Power down the equipment



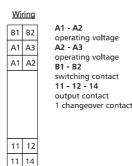


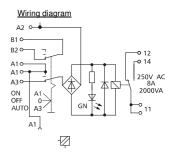
2. Strip the wire by 10 mm. Wire cross section: $0.08 - 2.5 \, \text{mm}^2$ Stranded wire w/o end sleeve Stranded wire with end sleeve 0.08 - 1.5 mm²



- 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

3. Device connection per wiring diagram.





4. Release a wire

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

Slightliy 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.

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PCD7.L452 Coupling Module

Describtion

The analog data encoder PCD7.L452 is used as a regulating encoder for manual setting of manipulated variables e.g. for mixing valves, valve settings, temperatures etc.

Function describtion

The module offers three operation modes selectable by the three-position switch (ON, OFF, AUTO). The switch position is signaled by the external control contacts B1 and B2.

The regulating variable is selected with the front-mounted potentiometer. The 0 to 10 V output signal is available at contact Y.

<u>Switch position "AUTO"</u>
The regulating variable is looped through without change to output Y via contact YR

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 screwdriver.

Technical Data

0 ... 10 V DC 0 ... 10 V DC Inputvoltage Outputvoltage

Input

operating voltage UN current consumption at 24 V AC 24 V AC/DC max 30 mA at 24 V DC 19 mA current consumption (input YR)

at 10 V DC max. 2 mA operating voltage range duty cycle 0.85 ... 1.2 x UN 100 %

status indication of the output red LED, intensity of the LED is proportional to the

manipulated variable proof against short-circuits

Breaking Capacity of Switch

switching AUTO/ON

24 V / 50 mA AC/DC 20 mV / 1 μA AC breaking capacity max breaking capacity min. 5 x 10² switching cycles 500 V, 50 Hz, 1 min. mechanical endurance test voltage

output current (output Y) in switch positions "AUTO/ON/OFF"

10 mA

Temperature range

operating temperature range storage temperature range -20 °C ... +55 °C -25 °C ... +70 °C

Housing

type of protection (EN 60 529) material IP20 polyamide 6.6 V0

wire cross section

single wire stranded wire w/o end sleeve 0.08 - 2.5 mm² 0.08 - 2.5 mm² stranded wire with end sleeve dimensions W x H x L 0.08 - 1.5 mm² 11.2 x 88 x 60 mm

weight mounting position 43 g

mounting Standard rail TH35 per IEC 60715

Mounting

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





Installation

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

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.

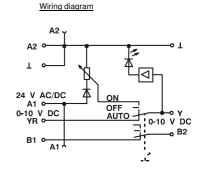


b) When terminating stranded wires without end sleeves it is necessary to open the spring with a flat-bladed screwdriver (blade width max. 3.0 mm): enter the screwdriver to the test sleeve situated below the Contact and remove the screwdriver.

3. Device connection per wiring diagram.

Wiring

В1	В2	B1, B2 manual checkbac function YR, I voltage input A1, A2 operating voltage Y, I voltage output
YR	Τ	
A1	A2	



4. Release a wire

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

Slightliy 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.