## 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

<u>Switch position "ON"</u> 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

0 ... 10 V DC 0 ... 10 V DC

24 V AC/DC

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

Inputvoltage Outputvoltage

Input operating voltage UN current consumption at 24 V AC at 24 V DC current consumption (input YR) at 10 V DC operating voltage range duty cycle

status indication of the output

switching AUTO/ON

### Breaking Capacity of Switch breaking capacity max. breaking capacity min. mechanical endurance test voltage

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

# Temperature range operating temperature range

storage temperature range Housing type of protection (EN 60 529) material wire cross section single wire stranded wire w/o end sleeve stranded wire with end sleeve dimensions W × H × L

max. 30 mA 19 mA max. 2 mA 0.85 ... 1.2 × UN 100 % red LED, intensity of the LED is proportional to the manipulated variable proof against short-circuits

24 V / 50 mA AC/DC 20 mV / 1 μA AC  $5 \times 10^2$  switching cycles 500 V, 50 Hz, 1 min.

10 mA

-20 °C ... +55 °C -25 °C ... +70 °C

IP20 polyamide 6.6 V0 0.08 - 2.5 mm<sup>2</sup> 0.08 - 2.5 mm<sup>2</sup> 0.08 - 1.5 mm<sup>2</sup> 11.2 × 88 × 60 mm 43 g anv Standard rail TH35 per IEC 60715

### Mounting

mounting

weight

mounting position

On standard rail TH35 per IEC 60715 (35 × 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.

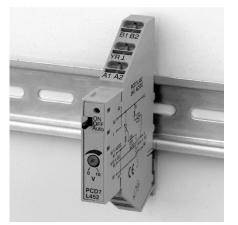
### 1. Power down the equipment.





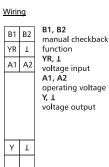
- 2. Strip the wire by 10 mm. Wire cross section: Solid wire 0.08 - 2.5 mm<sup>2</sup> Stranded wire w/o end sleeve  $0.08 - 2.5 \text{ mm}^2$ Stranded wire with end sleeve  $0.08 - 1.5 \text{ mm}^2$
- a) Solid wires and wire with end sleeves are plugged directly Insert the wire straight into the contact and press until the wire snaps In the spring.

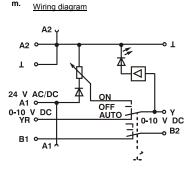
Saia-Burgess Controls AG Bahnhofstrasse 18 3280 Murten / Switzerland T+ 41 026 580 30 00 www.saia-pcd.com



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

m.





### 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.

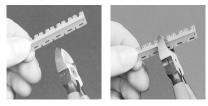


### 5. Release the Module from the standard rail

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

### Connecting Bridge

7.L291) allows to interconnect up to 10 coupling The connecting bridge (Order 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 dow wards 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.

