PCD7.L450 Coupling Module

Description

The analogue data encoder PCD7.L450 is used as a regulating variable encoder for manual variable setting e.g. for mixing valves, valve settings, temperatures etc.

Functional Description

The module offers two operation modes selectable by the two-position switch (MANU, AUTO). The switch position is signalled by the external control contacts S1 and S2.

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

Switch position "AUTO"
The regulating variable is looped through without change to output Y via contact YR.

Technical Data

Input
nominal voltage UN	24 V AC/DC (SELV)
current consumption	
at 24 V AC	24 mA
at 24 V DC	19 mA
current consumption (input YR)	
at 10 V DC	0.2 mA
operating voltage range	0.85 ... 1.2 x UN
duty cycle	100 %
input voltage	0 ... 10 V DC
output voltage	0 ... 10 V DC
status indication of the output	red LED
	intensity of the LED is proportional to the manipulated variable
switching AUTO/MANU	proof against short-circuits

Output
switching capacity of switch	
at resistive load	28 V / 2 A AC/DC
output current (output Y)	
at switch position "MANU"	1 mA

Temperature range
operating temperature range	-10 °C … +50 °C
storage temperature range	-25 °C … +70 °C

Housing
type of protection (EN 60529)	housing IP50, terminal blocks IP20
wire cross section	2.5 mm²
mounting	any
colour	green
weight	70 g
housing dimensions W×H×L	22.5 × 60 × 60 mm
modular	without spacing
mounting	standard rail TH35 per IEC 60715
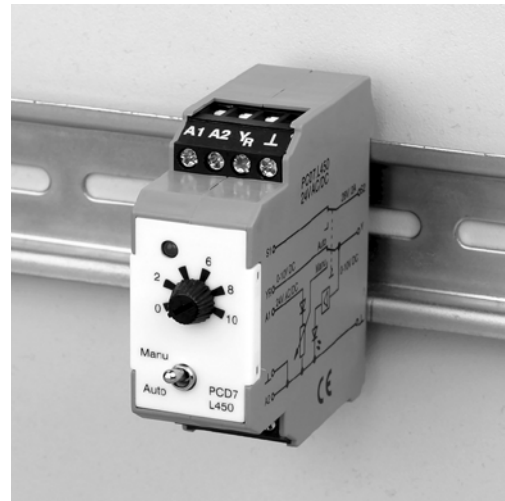
Wiring

Wiring diagram

A1 - A2
operating voltage
S1 - S2
manual
checkback function
YR - ⊥
signal input
Y - ⊥
signal output