Electronic relay RDP02

The RDP02 electronic relay is an adjustable two-state controller with an analog input. The input is configurable for input signals in the range of 0 ÷ 20mA, 0 ÷ 5V or 0 ÷ 10V. The potentiometer on the front panel of the device allows you to set the switching level in the range of 20 ÷ 100% of the selected input signal. The output contact of the relay closes when the input analog signal exceeds the set value and closes again when the input signal drops by 5% of the input range.
This means that if we have selected the 0 ÷ 10V input and the potentiometer is turned to the middle of the range (50%), the relay will switch on after exceeding 6V and switch off when it drops below 5.5V. If we have selected the current input (an input signal in the range of 0 ÷ 20mA can be used, so it also applies to the normalized signal 4 ÷ 20mA) and the potentiometer is turned to the middle of the range, the relay will switch on after exceeding 12mA and switch off when it drops below 11mA. The switching on of the relay with 250VAC/5A changeover contacts is indicated by a red LED.

Basic technical parameters

Supply voltage	24VDC ±15% or 24VAC ±10%
Power consumption	max. 1VA
Input range / input resistance	0 ÷ 20mA / 150Ω 0 ÷ 5V / 850kΩ 0 ÷ 10V / 1,2MΩ
Adjustable switching range	20 ÷ 100% from input range tedy pro 0 ÷ 20mA = 4 ÷ 20mA 0 ÷ 5V = 1 ÷ 5V 0 ÷ 10V = 2 ÷ 10V
Switching hysteresis	5% from the range
Output relay load capacity	5A 250VAC / 24 VDC
Max. switching power	1250 VA / 120 W
Min. switched load	100 mA 5 VDC
Indication of closed relay	red LED
Range of working temperature	-20 ÷ 50 °C
Range of storage temperature	-20 ÷ 60 °C
Relative humidity	< 90 % no condensation
Protection level	IP20
Condustors	max. 1,5 mm^2
Dimensions (L x V x H)	18 x 62 x 64 mm

Layout of connecting terminals (fig. 1)

H.....power supply 24V ~/+
G.....0V

F.....positive pole of input signal
E.....negative pole of input signal

A,B,C...relay contacts

B-C...relay OFF
B-A...relay ON

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Input configuration:

The configuration jumpers are accessible after removing the right side cover of the device.

0 ÷ 10V

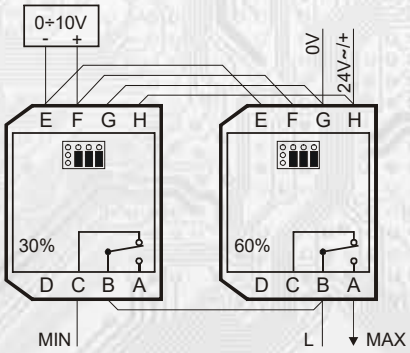
0 ÷ 5V

0 ÷ 20mA
only one or first in line

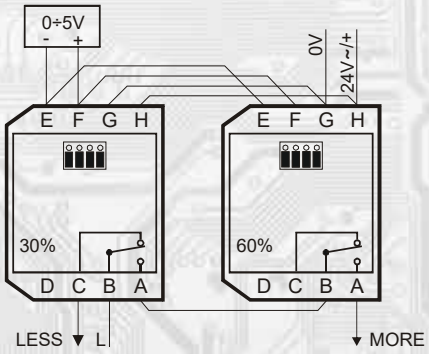
0 ÷ 20mA
second to fourth in a row

Connection examples (Fig. 2):

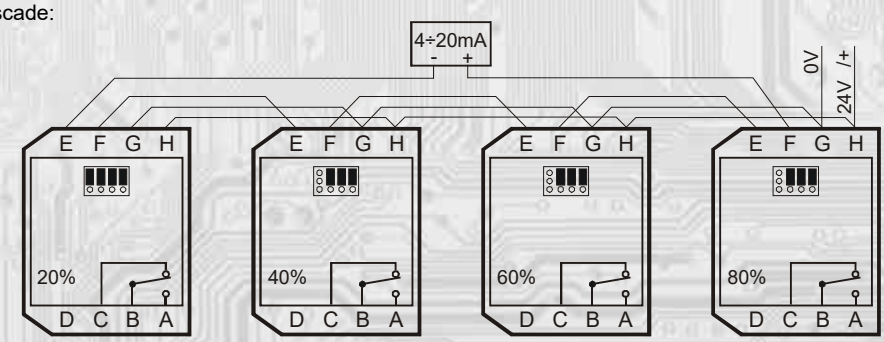
Limit reporting:



Drive control:



Boiler cascade:



Only one device with current input: