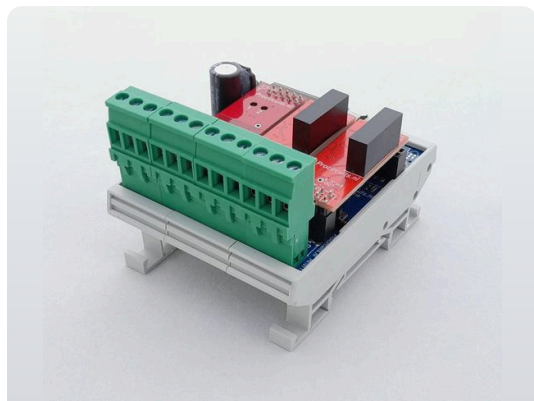


Up/down pulse input to dual 4-20 mA signal conditioner, isolated, with display

Article number PR181-X031



The PR181-X031 converts an up and a down pulse input into two 4-20 mA signals. Both outputs are galvanically isolated from the input, the supply and each other; the lower and upper limits are set independently for each output on the display. Output speed in seconds sets how long the outputs take to go from 0 to 100 % and back. The inputs accept high-side and low-side switched contacts of 20 to 50 V DC; LED 1 (up) and LED 2 (down) light up on a pulse.

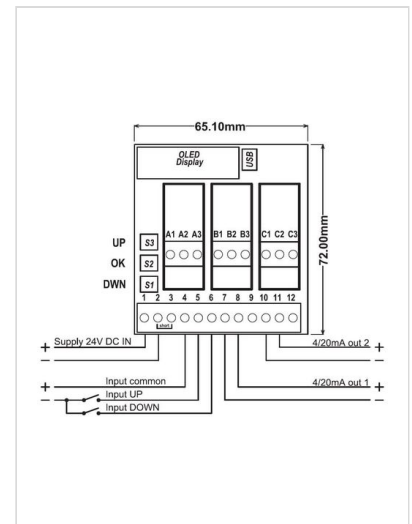
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	Two pulse inputs, UP and DOWN, 20 to 50 V DC; high-side or low-side switched
Output	Two 4-20 mA outputs as delivered, 21 mA max.; lower and upper limit adjustable per output
Isolation	Input, outputs and supply galvanically isolated from each other; the two outputs also from one another
Setup	Display with UP, OK and DOWN buttons
Output travel time	Adjustable: time from 0 to 100 % and back
Minimum pulse width	100 ms min.
Output refresh rate	10 Hz
Ambient temperature	-25 to 55 °C, non-condensing
Dimensions	68 x 83 mm with DIN rail enclosure, 65 x 72 mm without
Factory setting	Both outputs 4-20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Common minus, internally connected to terminal 2
Terminal 4	Input common
Terminal 5	UP input
Terminal 6	DOWN input
Terminal 7	Isolated common of output 1
Terminal 8	Isolated output 1, 4-20 mA (plus)
Terminal 9	Not used
Terminal 10	Isolated common of output 2
Terminal 11	Isolated output 2, 4-20 mA (plus)
Terminal 12	Not used



Setup

1. Connect the contacts to terminals 5 (UP) and 6 (DOWN). For high-side switched contacts, terminal 4 (common) goes to the minus; for low-side switched contacts, to the plus.
2. Connect the supply and the outputs according to the terminal table and switch on the supply.
3. Check the inputs: LED 1 lights up on a pulse at UP, LED 2 on a pulse at DOWN.
4. Use Output speed in seconds to set how long the outputs take to go from 0 to 100 % and back.
5. Set the limits of output 1 with Output 1 min and Output 1 max: change the value with UP and DOWN and confirm with OK. This lets you set an output to 0-20 mA, for example.
6. Set the limits of output 2 in the same way with Output 2 min and Output 2 max.
7. The Status menu gives an overview of the converter.
8. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x031

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