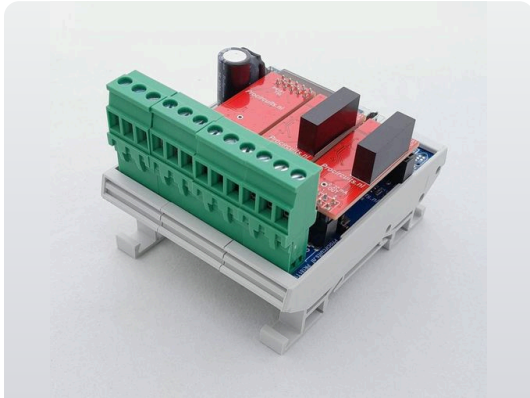


4-20 mA signal splitter, one input to two isolated outputs, with display

Article number PR181-X047



The PR181-X047 splits one 4-20 mA signal into two identical 4-20 mA outputs. The two outputs are galvanically isolated from each other, from the input and from the supply to prevent ground loops. The lower and upper limits of the input and of each output are set independently on the display, as is the rise and fall rate of the outputs. As delivered, 4 mA at the input gives 4 mA at both outputs and 20 mA at the input gives 20 mA.

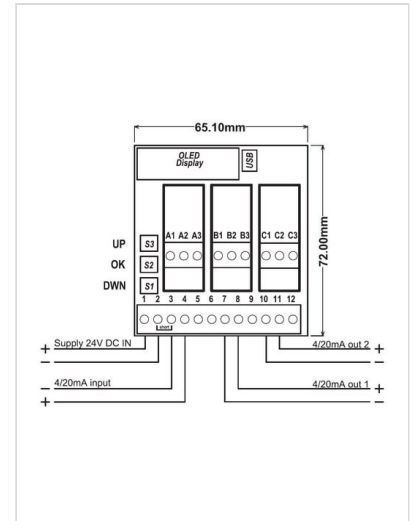
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	4-20 mA on terminals 3 (minus) and 4 (plus), 25 mA max.
Output	Two 4-20 mA outputs as delivered, 21 mA max.; lower and upper limit adjustable per output
Isolation	Outputs galvanically isolated from each other, from the input and from the supply
Setup	Display with UP, OK and DOWN buttons
Rise and fall rate	Adjustable on the display
Ambient temperature	-25 to 55 °C, non-condensing
Dimensions	68 x 83 mm with DIN rail enclosure, 65 x 72 mm without
Factory setting	4 mA input = 4 mA on both outputs, 20 mA = 20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	4-20 mA input (minus), internally connected to terminal 2
Terminal 4	4-20 mA input (plus)
Terminal 5	Not used
Terminal 6	Not used
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 module according to the terminal table and switch on the supply.
2. Set the input to its lowest level, for example 4 mA. In the menu, select IN1 – Set minimum, press OK, select YES and press OK again.
3. Set the input to its highest level, for example 20 mA. Select IN1 – Set maximum, press OK, select YES and press OK again.
4. Set the lower limit of output 1 with OUT1 minimum adj: change the value with UP and DOWN and confirm with OK.
5. Set the upper limit of output 1 in the same way with OUT1 maximum adj.
6. Set output 2 in the same way with OUT2 minimum adj and OUT2 maximum adj.
7. If required, use Output speed UP in seconds and Output speed DOWN in seconds to set how many seconds the outputs take to go from 0 to 100 % and from 100 to 0 %.
8. Other menu items: IN1 minimum adj and IN1 maximum adj fine-tune the input limits; setting OUT1 invert or OUT2 invert to 1 reverses that output; OUT1 off threshold and OUT2 off threshold set a dead band in which the input has no effect (mainly for potentiometers with a switch); Output mode 0 gives a linear output and 1 to 100 an exponential one (mainly for LED dimmers); IN1 override, OUT1 override and OUT2 override let you set the input or output value by hand (with IN1 override the external input is ignored).
9. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x047

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