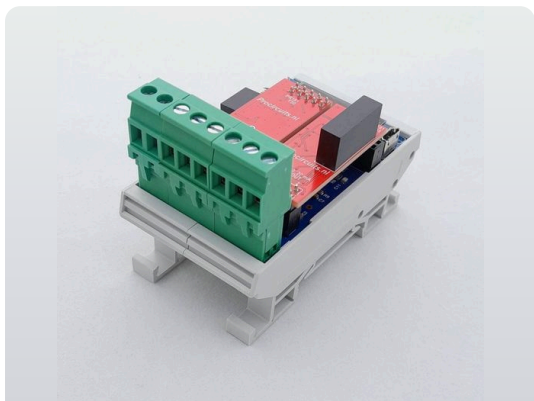


30-240 kΩ resistance to 4-20 mA signal conditioner, isolated, with display

Article number PR181-X038



The PR181-X038 converts a two-wire resistance of 30 to 240 kΩ into a 4-20 mA signal, for example from a level float or a position sensor. The output is galvanically isolated from the input and the supply to prevent ground loops. Lower and upper limits of input and output are set independently on the display, as is the rise and fall rate of the output. As delivered, 30 kΩ on the input gives 4 mA and 240 kΩ gives 20 mA.

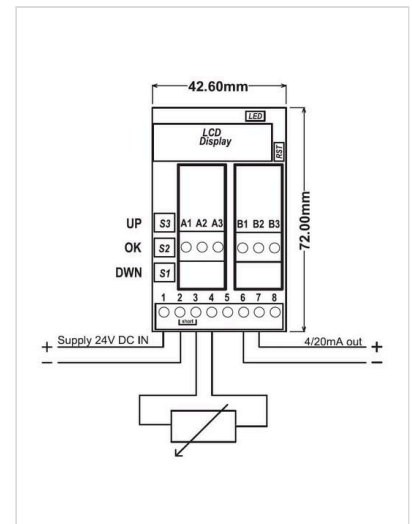
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	Two-wire resistance, 30 to 240 kΩ, on terminals 3 and 4
Output	4-20 mA as delivered, 21 mA max.; lower and upper limit adjustable
Isolation	Output galvanically isolated from input and 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	45 x 83 mm with DIN rail enclosure, 42.6 x 72 mm without
Factory setting	30 kΩ = 4 mA, 240 kΩ = 20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Resistance, common minus, internally connected to terminal 2
Terminal 4	Resistance plus, internally connected to terminal 5
Terminal 5	Not used (internally connected to terminal 4)
Terminal 6	Isolated output common
Terminal 7	Isolated 4-20 mA output (plus)
Terminal 8	Not used



Setup

1. Connect the module according to the terminal table and switch on the supply.
2. Apply the lowest resistance to the input, for example 30 k Ω . In the menu, select IN1 – Set minimum, press OK, select YES and press OK again.
3. Apply the highest resistance to the input, for example 240 k Ω . Select IN1 – Set maximum, press OK, select YES and press OK again.
4. Set the lower limit of the output with OUT1 minimum adj: change the value with UP and DOWN and confirm with OK.
5. Set the upper limit of the output in the same way with OUT1 maximum adj.
6. If required, set the rise and fall rate of the output with Ramp-Up and Ramp-Down.
7. Setting OUT1 invert to 1 reverses the output: the lowest resistance then gives the highest output level.
8. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x038

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