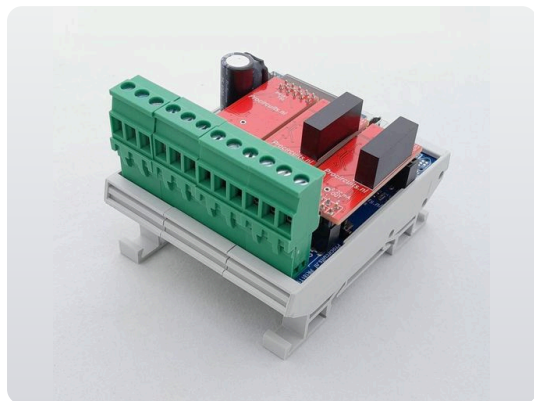


±10 V to 0-10 V signal conditioner, isolated, with display

Article number PR181-X080



The PR181-X080 converts a voltage of -10 to +10 V into 0-10 V. Input and output are galvanically isolated from each other and from the supply to prevent ground loops. If the input signal is lost, for example due to a broken wire, the output goes to 5 V, so that no unexpected output level occurs. As delivered, -10 V at the input gives 0 V, 0 V gives 5 V and +10 V gives 10 V.

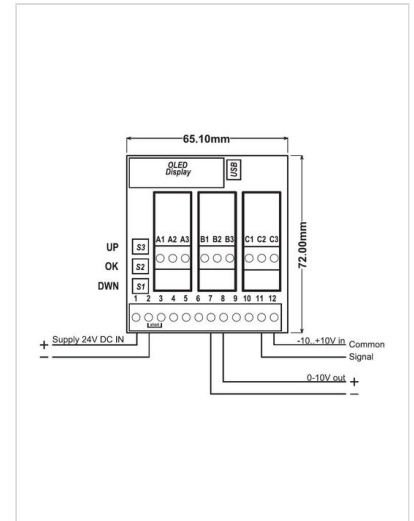
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	±10 V on terminals 11 (signal) and 12 (common), -11 to +11 V max.
Output	0-10 V; lower and upper limit adjustable
Isolation	Input and output galvanically isolated from each other and from the supply
Setup	Display with UP, OK and DOWN buttons
On signal loss	Output goes to 5 V if the input signal is lost, for example due to a broken wire
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	-10 V input = 0 V, 0 V = 5 V, +10 V = 10 V

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Minus, internally connected to terminal 2
Terminal 4	Not used
Terminal 5	Not used
Terminal 6	Not used
Terminal 7	Isolated output common
Terminal 8	Isolated 0-10 V output (plus)
Terminal 9	Not used
Terminal 10	Not used
Terminal 11	Isolated ± 10 V input (signal)
Terminal 12	Isolated input common



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 -10 V. In the menu, select Input 1 – Set minimum, press OK, select YES and press OK again.
3. Set the input to its highest level, for example +10 V. Select Input 1 – Set maximum, press OK, select YES and press OK again.
4. Set the lower limit of the output with Output 1 min: change the value with UP and DOWN and confirm with OK.
5. Set the upper limit of the output in the same way with Output 1 max.
6. If required, set the rise and fall rate of the output with Ramp-Up and Ramp-Down.
7. Fine adjustment: Input 1 min and Input 1 max fine-tune the input limits. Setting OUT1 invert to 1 reverses the output: the lowest input level 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-x080

ProCircuits B.V. · Van Nijenrodeweg 903, 1081 BJ Amsterdam, Netherlands · +31 6 45 77 55 93 · willem@procircuits.nl ·

Chamber of Commerce (KVK) 87009870

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