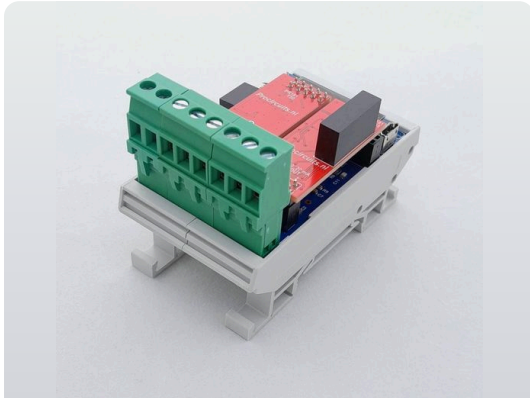


Centre-position joystick to 4-20 mA signal conditioner, isolated, with display

Article number PR181-X046



The PR181-X046 converts a centre-position joystick or potentiometer into a 4-20 mA signal. As delivered, the output gives 4 mA in the centre position and 20 mA at the far left and far right. The left, centre and right positions, the dead band around the centre and the output limits are set on the display. An adjustable delay in the neutral position prevents the drive from going straight from forward to reverse, so that clutch and motor are not subjected to shocks.

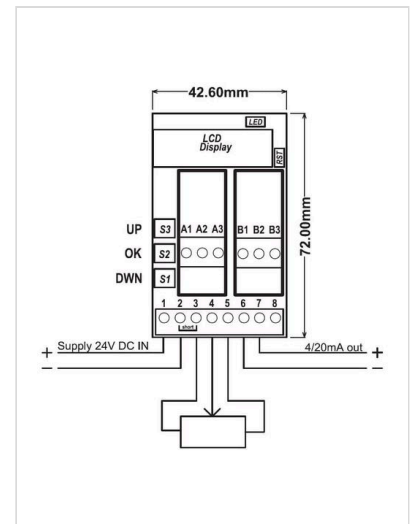
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	Centre-position joystick or potentiometer on terminals 3, 4 and 5
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
Centre position	Dead band and neutral delay 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	Joystick left = 20 mA, centre = 4 mA, right = 20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Joystick minus, internally connected to terminal 2
Terminal 4	Joystick signal (wiper)
Terminal 5	Joystick plus
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. Move the joystick to its lowest position. In the menu, select JoySet-L, press OK, select YES and press OK again.
3. Move the joystick to its highest position. Select JoySet-R, press OK, select YES and press OK again.
4. Move the joystick to its centre position. Select JoySet-M, press OK, select YES and press OK again.
5. Set the lower limit of the output with Output min: change the value with UP and DOWN and confirm with OK.
6. Set the upper limit of the output in the same way with Output max.
7. If required, set the rise and fall rate with Ramp-Up and Ramp-Down, and the delay in the neutral position with N-delay.
8. Fine adjustment: Joy-Left, Joy-Mid and Joy-Right fine-tune the three positions; Joy-hyst sets the dead band around the centre position (the higher the value, the larger the dead band). With Zero in = Zero out set to 1, the output gives 0 mA in the neutral position; set to 0, the output follows the Output min value.
9. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x046

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