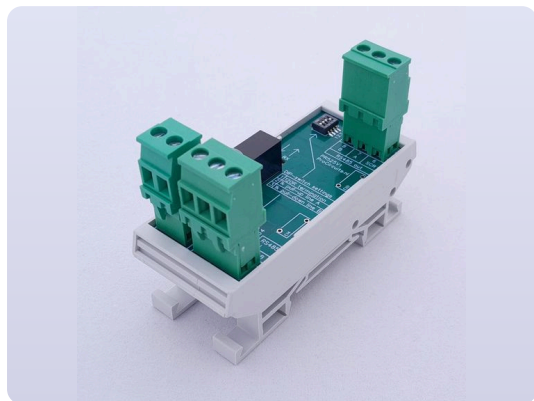


RS485 isolator and repeater for Modbus

Article number PR525x001



This isolator and repeater breaks ground loops in an RS485 or Modbus network. Placed at the right points, it allows longer cables or higher data rates. Input and output are galvanically isolated from each other and from the supply, which can be 12 or 24 V DC. The termination resistor and the pull-up and pull-down resistors are enabled per side with DIP switches.

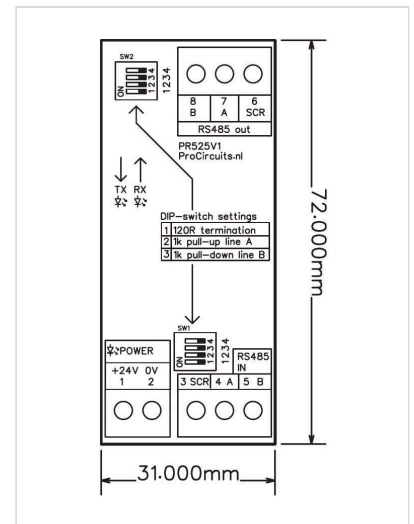
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC, for 12 and 24 V systems
Input	RS485 (A, B and shield)
Output	RS485 (A, B and shield), repeated
Isolation	Input, output and supply galvanically isolated from each other
Setup	DIP switches SW1 (input) and SW2 (output): 120 Ω termination resistor, 1 k Ω pull-up to 5 V on line A, 1 k Ω pull-down to 0 V on line B
Baud rate	500,000 baud max.
Indication	POWER, TX and RX LEDs
Dimensions	34 x 83 mm with DIN rail enclosure, 31 x 72 mm without
Mounting	DIN rail

Connections

Terminal 1	Supply plus
Terminal 2	Supply 0 V
Terminal 3	Shield of the incoming RS485 cable (SCR)
Terminal 4	Incoming RS485, signal A
Terminal 5	Incoming RS485, signal B
Terminal 6	Shield of the outgoing RS485 cable (SCR)
Terminal 7	Outgoing RS485, signal A
Terminal 8	Outgoing RS485, signal B



Setup

1. Connect the shield of both the incoming and the outgoing RS485 cable to terminals 3 and 6; the network does not work properly without it.
2. If the module sits at one end of the cabling, switch on DIP switch 1 on that side (SW1-1 for the input, SW2-1 for the output): it places 120 Ω between A and B. The network must be terminated like this at both ends.
3. Switch on DIP switches 2 and 3 (1 k Ω pull-up from line A to 5 V, 1 k Ω pull-down from line B to 0 V), so the data lines never sit at an undefined level; otherwise data can be corrupted or unwanted pulses can occur.
4. Switch 4 of SW1 and SW2 is not used.

More information, price and lead time: www.procircuits.nl/en/products/pr525x001

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