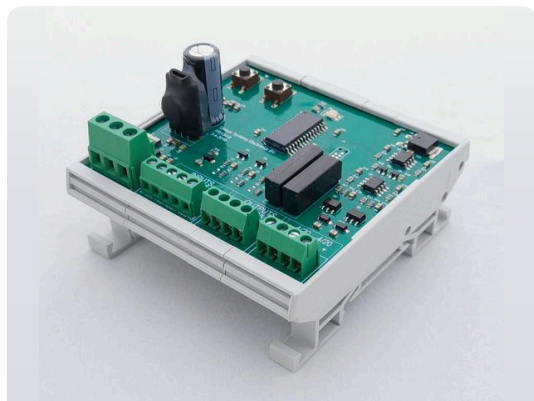


Spud pole length measurement with 4-20 mA output

Article number PR134s01



Inland vessels that anchor with spud poles do not need the same pole length everywhere, because the water depth varies. The PR134s01 measures the extended length with three inductive sensors and converts it to 4-20 mA, so an indicator or control panel shows at once how deep the pole is. Two contacts report when the pole is fully retracted and when it is fully extended. The end point is set by extending the pole once, so the module suits any pole length.

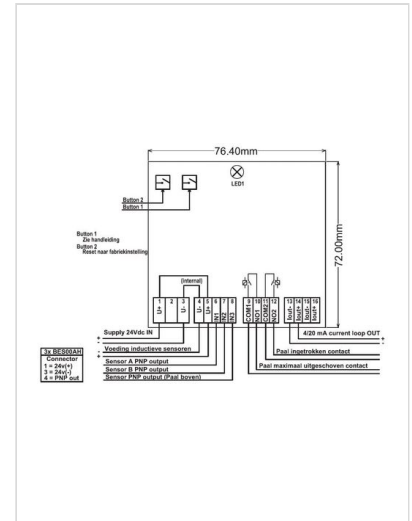
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	24 V DC ($\pm 10\%$)
Input	Three inductive sensors with PNP output (sensor A, sensor B and Pole up), powered from the module; NPN on request
Output	4-20 mA, 21 mA max.; two relay contacts (NO), 30 V DC and 0.5 A DC max.
Setup	End point set with buttons 1 and 2 and a red/green LED
Dimensions	79 x 83 mm with DIN rail enclosure, 76.4 x 72 mm without

Connections

Terminal 1	Supply +24 V (plus)
Terminal 2	Not used
Terminal 3	Supply 0 V (minus)
Terminal 4	Sensor supply 0 V, internally connected to terminal 3
Terminal 5	Sensor supply +24 V, internally connected to terminal 1
Terminal 6	Sensor A, PNP output
Terminal 7	Sensor B, PNP output
Terminal 8	Sensor Pole up, PNP output
Terminal 9	Contact pole fully extended, common (COM)
Terminal 10	Contact pole fully extended, normally open (NO)
Terminal 11	Contact pole retracted, common (COM)
Terminal 12	Contact pole retracted, normally open (NO)
Terminal 13	4-20 mA output, minus (0 V), internally connected to terminal 3
Terminal 14	4-20 mA output, signal (plus)
Terminal 15	Not used
Terminal 16	Not used



Setup

1. Connect the sensors according to the wiring diagram. Make sure sensor A and sensor B are not swapped.
2. Switch on the supply and wait until the LED stops flashing, about 30 seconds.
3. Fully retract the spud pole. The orange light of the Pole up sensor is then on and there are at least 2 V between terminals 4 and 8.
4. Hold button 2 until the LED flashes red: configuration starts.
5. Extend the spud pole to the required end point. On the way, the module counts the number of rotations.
6. At the end point, hold button 1 until the LED flashes green. The end point is now set: at this point the contact on terminals 9 and 10 is closed and the output is at 20 mA.
7. If the LED flashes red when you press button 1, check sensors A and B: they must light up orange when the measuring metal passes. You can also measure between terminals 4 and 6 (sensor A) and between terminals 4 and 7 (sensor B).

More information, price and lead time: www.procircuits.nl/en/products/pr134s01

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

Chamber of Commerce (KVK) 87009870

We supply businesses only.