



PRODUCT INNOVATION LIMITED

Hall Effect Level Sensor Technical Specification (Draft)

Method of Operation

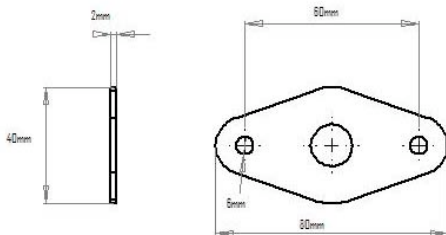
The Sensor works on the principle of a spherical float and a series of Hall Effect transistors assembled on a long very narrow PCB. Using both software and hardware the innovative controller in the top of the unit avoids the inherent problems of Hall Effect devices in this kind of application. This results in a sensor that is high resolution, narrow gauge and capable of operating at elevated temperatures and pressures.

A measurement is made every ½ second and the output updated. The output is either 0 – 5V or 4 – 20mA. A low power option is available suitable for battery powered operation.

Dimensions, connections details and specifications

- Main rod material: Stainless steel. Or plastic depending on application.
- Metal top material: Stainless Steel or plastic depending on application.
- Maximum Pressure: 60 bar.
- Fastening nuts: Stainless steel or plastic.
- Float diameter: 30mm
- Float Specific Gravity: 0.65.
- Distance between sensors: 3.5mm.
- Length: variable to customer demand.
- Input power: 12 -24VDC.
- Output: 0 – 5V DC. Alternatively 4 – 20mA is available.
- Fixing: either from inside the tank (as shown) or fully from outside with use of the external flange See drawing below.
- Fixing: M14 x 2mm thread.
- Seals material: Depending on application.
- Cable: 4 Core with strain relief grommet.
- Cable Length: 2 metres (or to customer specification).
- Temperature range: -40C to 85C.
- Connections: **0 – 5V** Red - 12/24VDC, Blue - Ground, Yellow - V Out
4 – 20mA Red – 12/24VDC, Blue – Ground, Yellow - Current+ , Green - Current -

External Mounting Flange. See Sketch and Assembly below.



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