

# Innovations

by MEDER electronic

E3/07

## Float Sensors

## Flow-through Sensors

## Liquid Level Sensors

MEDER electronic has been developing and manufacturing innovative solutions based on reed switch technology for over 25 years. Our experience and competence in the field of reed products can be utilized by our customers to optimize their applications.

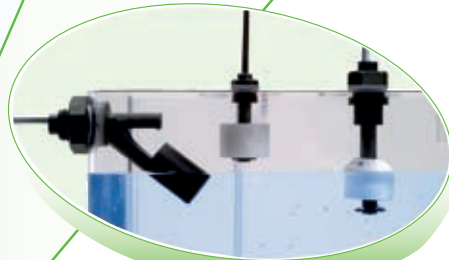


Fig.1: LS03, LS01, LS02

The high quality standards of our level sensors meet the requirement of RoHS, ISO 9001-2000 and TS 16949:2002.

### Technique Features

Reed switches, together with permanent magnets, are touch-free sensors that do not require electrical power – an advantage over Hall-effect, inductive or capacitive sensors.

Float switches function on a simple principle; a permanent magnet is integrated in a float, which moves with the change of liquid level to open or close the reed switch in order to detect the fluid level.

Series **LS-01** and **LS-02** are mounted vertically to sense the fluid level. Series **LS-03** is mounted horizontally and incorporates a hinged float (fig.1).

Series **LS-04** (fig. 2) is a dual magnet float sensor which can sense two different fluid levels.



Fig. 2: LS04

### Customised Designs

MEDER can support customer product development from the design stage. This collaboration, together with technical support ensures the end product meets the customers required criteria.

Sensors can be tailored and adjusted to meet the customers requirements or we can develop complete customized parts with respect to housing form, reed switch, PCB, cable, connector and actuating magnet upon request.

The **flow-through sensor** (fig. 3) is a bespoke design for an American client used in an oil refinery application which has also been adapted for use on automobiles and boats.

The **liquid level sensor** (fig. 4) is a custom made component for Bosch, used in the automotive industry for level detection in brake fluid reservoirs.

**Rod sensors** (fig. 5), are made of stainless steel tube and can be adjusted to different customer lengths. Similarly, the number of switching points for multiple-stage level monitoring can be freely chosen.

MEDER has the capability and experience for value added design to bring your product to market faster, easier and on-time.



Fig.3: Flow-through Sensor



Fig.4: Liquid Level Sensor

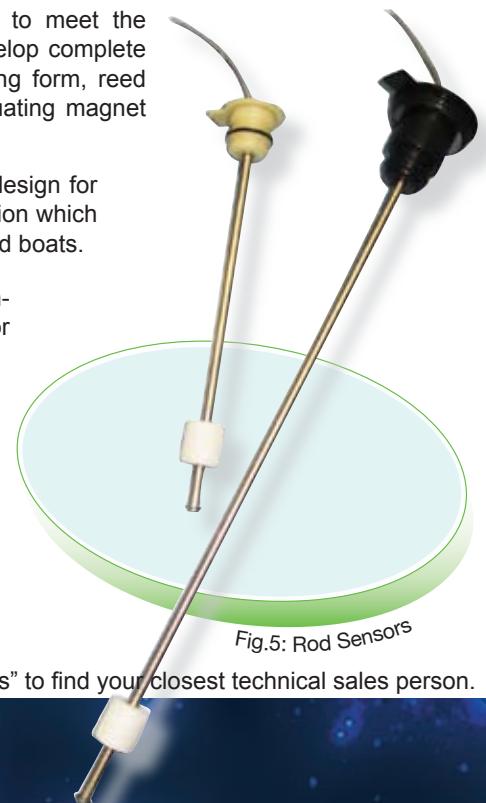


Fig.5: Rod Sensors