



PSM INSTRUMENTATION LTD

KD12
Float level switch
User Manual

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Specification

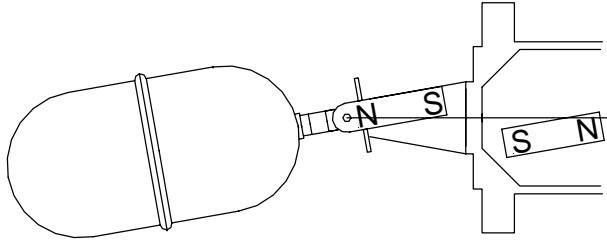
Mounting method as confirmed by shipyard (top or side)
 Mounting size: As confirmed by shipyard (JIS or DIN, others)
 Materials: Float SUS 304, SUS 316L
 Flange SS41, SUS304, SUS 316L
 Cover & Body Aluminium Epoxy coated

Operating Principle

One permanent magnet is located within the float assembly which rises and falls with changing liquid level.

A second permanent magnet is positioned within the switch so that the adjacent poles of the two magnets repel one another through a non-magnetic diaphragm.

A change of fluid level moves the float through it's permissible travel, this causes the float magnet to move and repel the other magnet to give the snap action operation of the micro switch.



Testing

Ensure the system is connected to the correct power source
 Check the float level switch input signal either by moving the float by hand or by pulling on the test lever if fitted. The switch contacts should operate as the float / lever is moved

Fault finding if installed

Is the liquid being measured at it's alarm level?
 Is the power connected and working?
 Check operation with the test lever
 Check for mechanical damage to the float assembly or obstructions preventing the float moving through it's full travel.

Installation

Ensure that the flange sizes both on the instrument and the mounting location are correct
 Check any duty tags to confirm that the switch is being installed for correct application
 Confirm operation of switch is appropriate for the correct application (high or low action)
 Take care not to damage the float during installation
 When installing the float level switch in the tank, ensure the correct positioning of the test lever

High level alarm: test lever at the top.
 Low level alarm: test lever at the bottom.

