

# FLOAT SWITCH

## REED SWITCH OPERATED

### INTRODUCTION

Float guided level switch is a most reliable instrument to sense the liquid level in the industry. It can be used with PLC, DCS, SCADA.

### FEATURES

- Rugged construction
- Easy mounting with flanged or threaded connection
- Multilevel monitoring upto 4 levels
- Weatherproof
- Exproof

### CONSTRUCTION & OPERATING PRINCIPLE

- It consists of a guide tube, float & housing with electronic circuit.
- Float contains permanent magnet fixed inside & guide tube contains hermetically sealed reed switch fixed at required preset levels.
- Magnetic field acting from the float actuates the reed switch while moving along the guide tube with the rise or fall of the liquid level.
- These contacts are connected to PLC & DCS system directly.
- To enhance the contact rating relay controller is used which offers potential free relay contacts 5A@250V AC to operate higher electric load.
- Single or double switching is offered with single or double float. Option of relay latching for double level is provided for level control.



### APPLICATION

- Chemical, petrochemical industry, Refineries
- Pharmaceutical industry
- Pressure vessels, Storage tanks
- Marine industry
- Water & waste water treatment plants.

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### SPECIFICATIONS

All specifications at ambient of 25 °c, unless specified otherwise

Mounting	Top
Process Connection	Flanged / Screwed
Differential	Fixed (10 ± 5mm), (3 to 5mm) for float Ø 17.5, 25 & 28
Accuracy/Repeatability	±2mm / ±1mm
Preset Levels	1 to 4 (Factory set)
Enclosure	Cast Al. WP IP66 x PG11 or Cast Al. Ex-P Gr IIB, IIC x 1/2" NPT
No. of Floats	1/2/3/4
Size of Floats	SS316 x Ø25, 28, 41, 60, 75 PP x Ø50, Nitrophyl x Ø17.5
Switch type	Glass encapsulated hermetically sealed reed Switch
Switch rating	10VA, 40VA (Normally Open)
Load	Resistive or Inductive
Power Supply	24VDC / specified
Temperature Range	4°C to 150°C (Metallic), 4°C to 70°C (PP)
Max. Pressure	10 kg/cm <sup>2</sup> (Metallic), 3kg/cm <sup>2</sup> (PP)
Sp. Gravity of fluid	1.4 to 0.7
Wetted Parts	SS316/SS304/PP/PVDF
Installation	Installed internally or externally through external chamber. Still well is used in internal mtg. in case of turbulence in liquid
Accessories	External chamber Internal Steel well Level controller

### ORDERING INFORMATION

Order code : 2517

Model no, Process connection size, MOC, liquid, Sp.Gr., Op.Temp & Pressure, Guide tube length(mm), Preset levels, Reed switch action at preset level  
In case of Ex-cage specify CCdist

### PICTURE GALLERY FLOAT SWITCH - REED SWITCH OPERATED



CAT#501R0/311214/A

#### ENQUIRIES

**Instruments:** sales@radix.co.in  
**Sensors:** sensors@radix.co.in  
**Gauges:** gauges@radix.co.in  
**Automation:** automation@radix.co.in

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