

Displacer Type Level Switch-LTDS

Description

Displacer Level Switch is based on buoyancy principle .It is used for controlling the liquid level in underground & overhead tanks.

Operating Principle

Its operation is based upon simple buoyancy, whereby a spring is loaded with weighted displacers which are heavier than the liquid. Immersion of the displacers in the liquid results in buoyancy force change, changing the net force acting on the spring. The spring compresses as the buoyant force increases.

A magnetic sleeve is connected to the spring and operates within a non-magnetic barrier tube. Spring movement causes the magnetic sleeve to move into the field of a pivoted magnet, actuating a switch mechanism located outside the barrier tube. Built-in limit stop and prevent over-stroking of the spring under level surge conditions.

Specifications

Enclosure	: Weatherproof /Cast Al. IP66 Flame Proof to Gr.IIA IIB
Mounting	: Top
Max Length(below flange)	: Up to 15 mtrs
Process Connection	: Flange / Thread
Wetted Part	: SS/PP/PTFE/PVDF
No. of Displacers	: Single/ Multiple (Max.4)
Switch Type	: Micro Switch
Switch Contacts	: 2SPDT ,5A@230VAC
Conduit Connection	: ¾" ET or ½" NPT
Guided Wire Rope	: SS/PP/PTFE/PVDF
Differential	: 30±5mm
Spring Housing	: MS/SS304/SS316
Spring	: SS304/SS316
Min. Specific Gravity	: 0.5
Mac. Temperature	: Up to 250°C, others on request
Maximum Pressure	: Up to 50 Kg/cm ²

Features

- Reliable & low cost
- Wide Choice of Switching Functions
- Site Adjustable Switch points
- Available with External Chamber
- Easy transportation of long range switch

Application

Water, Diesel, Oil, Chemicals, Milk , Lubrication /Filtration systems , Paints/Varnishes, Heavy oil and Foaming liquids.

