It is a cost effective level switch for pump Control of water in storage tanks under atmospheric conditions.

Construction and Operation

It consists of two suitably spaced displacers suspended through a rope and connected to a coupler rod carrying an actuator for switch on-off operation.

Rising Water Level: on reaching at L1 (High Level), the top displacer gets immersed in the water and resultant buoyant force causes the actuator to move upward to actuate the micro switch.

Falling Water Level: on reaching at L2 (Low Level), the reduced buoyant force lowers the actuator to release the micro switch.

The control range required for specific applications can be set by adjusting the spacing between displacers to relocate them at the desired position on the rope.

Specifications

Enclosure	: PP, weather proof
Control Range	: 0.5 m to 3 m (max)
Switch Element	: Micro switch
Contact Type & Rating	: 1 x SPDT, 5A, 250VAC
Displacer	: Ø50 x PP (2 no's)
Rope MOC	: PP
Process Connection	: PP, Square flange cum Bracket
Operating Temperature	: 0 to 70°C
Operating Pressure	: Atmospheric

Schematic Diagram

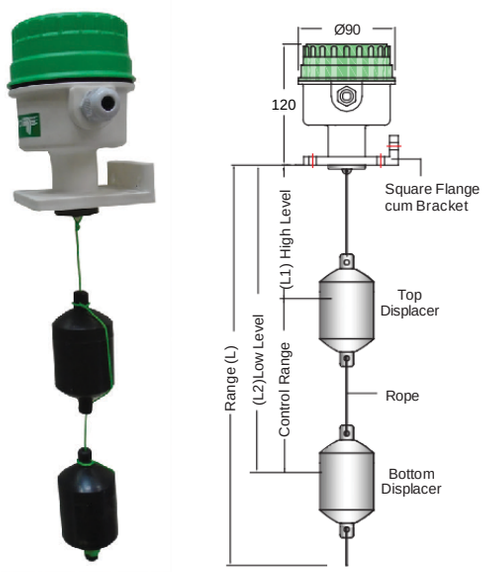


Fig.-1

Installation

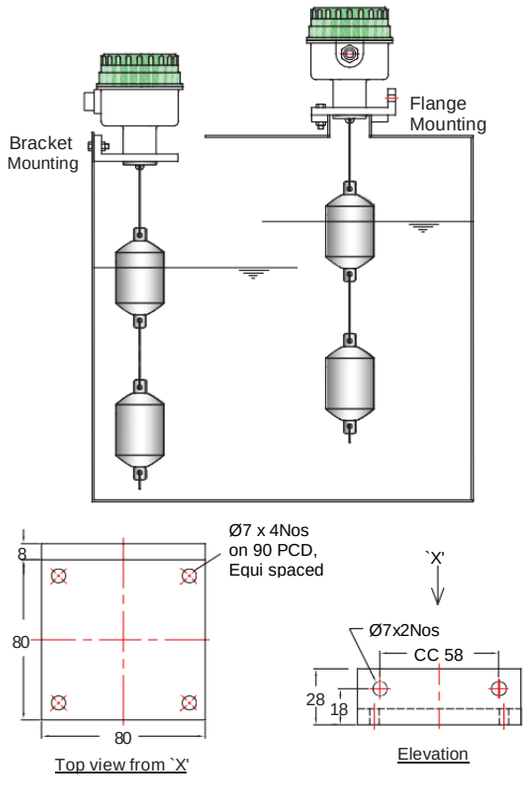


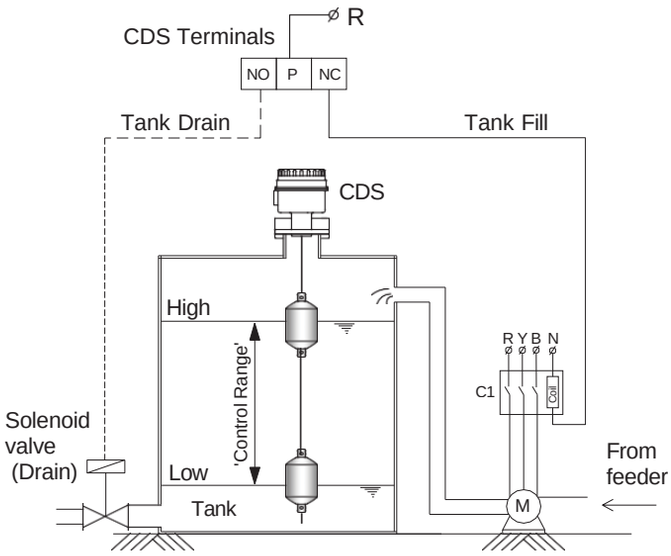
Fig.-2

Installation

The switch can be either flange mounted on tank top or bracket mounted on tank side wall. Customary precautions should be taken to ensure tank internals do not restrict the displacer movement and the switch is mounted away from the inlet & outlet of tank flow to minimize the effects of turbulence & suction respectively.

Termination & wiring

To activate pump on-off control during tank fill and drain operation



Applications

Sumps, overhead, storage, process, dosing tanks in Utilities, WTP, STP and ETP.