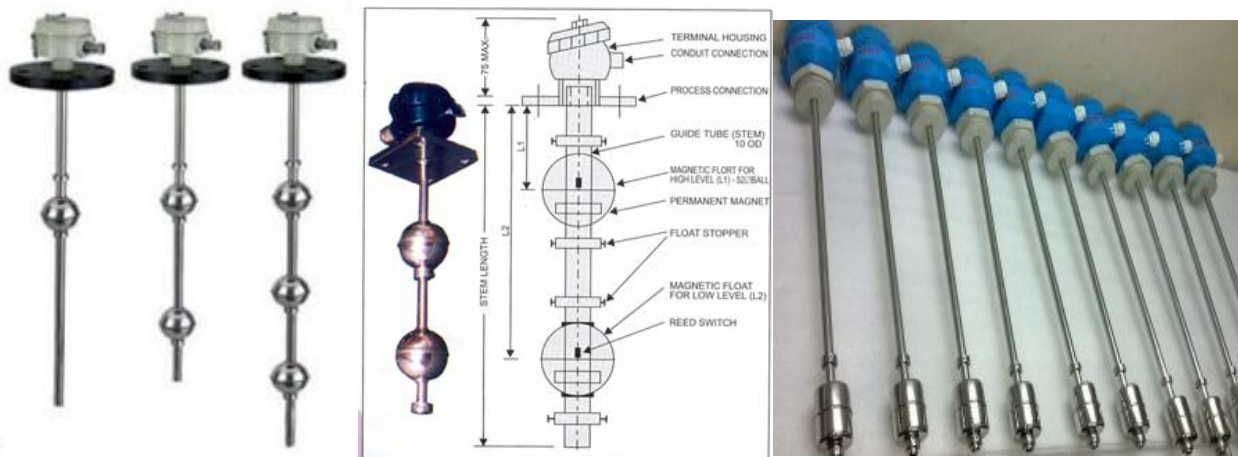


FLOAT OPERATED MAGNETIC LEVEL SWITCH

All controls have been designed using modular concept. Standard assemblies may be incorporated in a wide variety of arrangements to meet virtually any control application allowing maximum interchangeability of assemblies. Sunflow unique engineering & Manufacturing capability handles your special process requirements promptly without long delays at an economical cost.



OPERATING PRINCIPLE

The basic operation principle for magnetic switch action results from a change in liquid level, which moves magnetic attraction sieve (ss 316) into the field of an externally located 'U' magnet, thus overcoming the force of the bias spring & actuating the switching element.

SALIENT FEATURES

- Single & multiple switch model.
- External adjustment range.
- Robust construction.
- Threaded, Flanged or Socket weld connections.
- Choice of switches: - Micro Switch / Reed Switch / Mercury Switch / Air-Break Switch.

APPLICATIONS

These reliable instruments are ideally used for on – off liquid level control, alarm & safety shut-down service in a wide variety of application including large steam-electric generating stations, oil refineries & chemical processing operations

TANDEM FLOAT OPTION

Tandem float design combines two separate narrow differential switch functions in one Level Switch. This option can also be offered with sealed or flanged top external cage in addition to a flanged top-mounting model.

STANDARD SPECIFICATIONS

Model	: SF/TMMLS/411/412
Type	: Magnatically coupled float type.
Working Principle	: Attraction.
Material of Construction - for float & wetted parts	: AISI 304 SS / AISI 304 SSL / AISI 316 SS / AISI 316 SSL / PVC / Polypropylene / Teflon / Ebonite etc.
Switch Cover	: Cast Al. weatherproof as per IP-55 / 65 / 66 / 67, anticorrosive painted.
Process Connection	: Flanged 1½" to 6" As per ANSI, DIN, JIS, BS, IS Standard or screwed
External Cage Connection type	: Flanged / Socket Welded / Screwed.
Signalisation	: Reed Switch SPDT/SPST
Contact Form	: 1 NO + 1 NC, 2 NO + 2 NC.
Contact Rating	: 5A, 240/110V AC, 0.25A, 220V DC, 1A, 240/110V AC, 10A, 240V AC
Electrical Connection	: ¾" ET, ½" NPT, ¾" NPT, 1" NPT, etc
On – Off Differential	: 12 mm ± 2 mm (fixed). OR 12 – 25 MM ± 2 MM (Adjustable)
Accuracy	: ± 1 %.
Set Point	: Adjustable.
No. of Set Point	: Single / Double / Triple / Quadruple.
Max. Signalisation Height	: 5 MTR.
Max. Working Pressure	: 25 kg/cm ²
Max. Working Temperature	: 150 Deg,c
Specific Gravity	: 0.55 to 1.5

FLAME PROOF TYPE (SPECIFICATIONS SAME AS ABOVE)

Switch Cover	: Cast AL. Alloy LM-6 approved by ERTL (E) / CMRI, Dhanbad for group IIA IIB gases as per IS : 2148 - 1981 & Weatherproof to IP-66 as per IS:13947 &
Switch Cover	: Cast AL. Alloy LM-6 approved by ERTL (E) for group IIC gases as per IS: 2148- 1981 & Weatherproof to IP-66 as per IS:13947.

OTHER SPECIAL FEATURES

- External Chamber – Carbon / Alloy Steel, MSRL, SS, PVC, PPE.
- Radiating fins for high temperature application
- Higher Differential.
- IBR.
- Special Models on request.

SUNFLOW TECHNOLOGIES

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TECHNICAL SPECIFICATION TOP MOUNTED MAGNETIC LEVEL SWITCH

Top mounted level switches work on permanent magnet reed switch basis. The floats which contain permanent magnets move freely between their stops rising or falling with liquid level movement. Hermetically sealed within the tube are reed switches, completely isolated from the medium. The magnet's field actuates the reed switch as the float moves while the stoppers restrict overrun and prevent the reed switch returning to its original position. Stopper positions should not be changed.

Salient Features :

Reed - Switch actuated level switches work on the principle of magnetic flux linkage and therefore they are glandless and leak-proof instruments.

No Power Consumption.

Contacts are potential free, NO, NC or changeover contacts can be provided.

Practically no maintenance is required except periodic cleaning.

As reed-switches are inside metallic tube-guide pipe, they are protected from mechanical damage.

As the reed switches are "hermetically sealed-in-glass," under an inert gas atmosphere contacts are protected from contamination.

Reed switches, due to their low contact resistance are generally recommended for low voltage application. Reed switches have Rhodium contacts.

Wherever Low Voltage are available 24V or less Reed-Switch actuated level switches may be used directly, Otherwise it should be used in conjunction with our "Electronic control Unit." This ensures enhanced life of the level switch.

Wide operating temperature range from -40°C + 150°C.

Reed-Actuated level switches are ideal where vibration is involved.

In a single level switch we offer a maximum of 5 level sensing.

For highly viscous liquids heavy floats with teflon coated guide pipes are available & also our s can be used.

Model:SF/TMMLS/411/412