

Float Operated Magnetic Level Switch



Registered No. 325327

Magnetic Level Switches are especially suitable for high and low level signalisation or automatic level control (by starting & stopping pumps or opening & closing of valves) in pressurized or non-pressurized vessels. Horizontal mounting type directly on vessel or on External Chamber.

➤ Features:

- ⇒ Magnetic Transmission: Switch entirely glandless. Switch housing non-rotatable (rotatability not desired in case of horizontal mounting).
- ⇒ Suitable for horizontal mounting.
- ⇒ Adjustable Differential Attachment for higher differential.
- ⇒ Float with extension Rod for Longer nozzles.
- ⇒ Level switch with extended Tail-Piece & Counterbalance Weight for high-pressure applications.
- ⇒ Fulcrum Guard with Neoprene Bellows in case of liquids having suspended matters (max temp. 70°C).
- ⇒ External Chamber for installation of Level Switch outside main vessel with 1" NPT (F) or 1"SW (or flanged) vessel connections at top & bottom or at sides (thro' bent pipes). Chamber is normally 6"NB (can be 8"NB – special application) – fabricated.
- ⇒ Miniature Model complete with 2M Cable.
- ⇒ Snap acting/Air Break type contacts or Microswitches.

➤ Applications:

- ⇒ Level Alarms & Controls for Storage Tanks, Steam Drums etc. in Power Plants, Petrochemical Plants & Refineries, Chemical Plants, Paper Mills, Sugar Mills etc.

➤ Principle of Operation:

- ⇒ With the rise of liquid level, the float moves up thereby lowering the tailpiece (and Vice versa). The tailpiece magnet, by principle of repulsion pushes a magnet inside Level Switch Body. The Magnet makes or breaks contacts (Air-break type) or operates one or two Microswitches. Switches operated by snap action due to principle of repulsion.

Specifications:

Materials of Construction:	Body	SS 304/ SS 316/ Gun Metal / Ebonite / Teflon / PVC.
	Float	SS 304/ SS 316/ Ebonite/ Teflon, ECTFE/ FEP Coated If required.
	Chamber	Carbon Steel / SS 304/ SS 316 / ECTFE/ FEP Coated / Lined, Rubber lined if required.
	Cover	Aluminum / Stainless Steel / Ebonite.
1 Non wetted parts normally in Aluminum in case of Min. type / Teflon		
2 Non wetted parts normally in SS304		

N.B:

1. Pressure Class 4,5,6,7 is basically 150/300/600/900 ANSI rated & hence max. pressure may be higher than indicated
2. All Combinations not possible. Please contact us in case of doubt.

Enclosure Class	:	Weatherproof to IP66 or weatherproof & flameproof (to Gas Groups I, IIA, IIB or IIC as per IS 2148: 1981).	
Vessel Connection	:	Standard Flanges (92 mm Sq. or 120.5 mm dia round X 11 mm thick having 4 nos. 14 mm dia bolt holes at 92 mm PCD in case of pressure up to 10kg/cm ² . 140 mm dia X 22.7 mm thick having 4 nos 17.5 mm dia bolt holes at 105 mm PCD in case of Ebonite/Teflon/PVC type. 82.5 mm Sq. X 9.5 mm thick having 4 nos 9.5 mm dia bolt holes at 82.5 mm PCD in case of Miniature type) or as per IS /BS / ANSI / DIN Standard (min. 65 NB). Flanged / Screwed/ SW in case of External Chambers	
Pressure Rating	:	110 Kg/Cm ² max (75 Kg/Cm ² max in case of flameproof models). Please refer to us in case of higher pressure. Max. 0.4 Kg/Cm ² in case of Ebonite, 0.6 Kg/Cm ² in case of Teflon / PVC and 5 Kg/Cm ² in case of Miniature Model.	
Temperature Rating	:	500°C max. or higher and - 200°C min. with Intermediate Chamber (max. 210°C for standard models).Max.55°C in case of Ebonite, 60°C in case of Teflon / PVC & 150°C in case of Miniature Model.	
Specific Gravity	:	0.75 - 1.2. Special Floats for other Specific Gravities and Interface Applications.	
Differential	:	12 mm ± 2 mm (higher where extension rod provided) 17 ± 2 mm When Fulcrum Guard with Neoprene Bellows provided.	
Contact Type	:	Air Break Type (1NO+1NC) or Microswitch (1 SPDT or 2 SPDT) (Standard or Hermetically sealed Microswitch having Silver / Gold contacts).	
Contact Rating	:	Air Break Type	2A at 250 V AC / 2A at 24 V DC.
	:	Micro Switch (standard type)	5A at 230V AC/4A at 24V DC (please refer to us in case of special or Hermetically sealed microswitches).
Cable Entry	:	½", ¾" NPT as standard, other types when required.	
Vent / Drain Connection	:	As required (where External Chamber provided).	

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