

DISPLACER TYPE MAGNETIC LEVEL SWITCH FOR LIQUIDS - DS

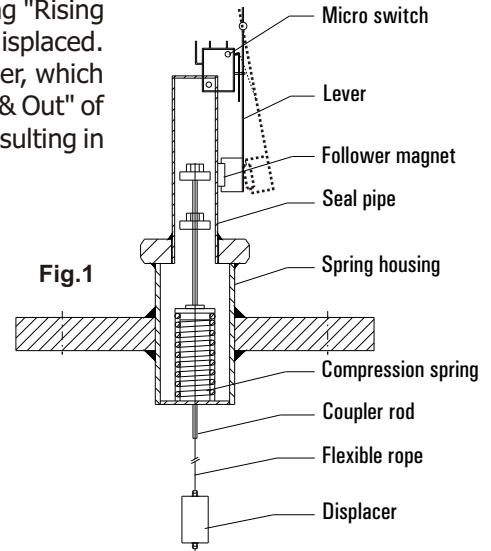
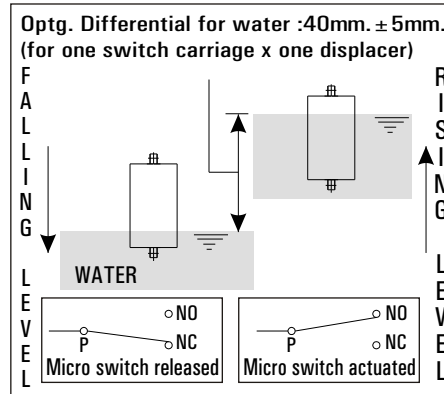


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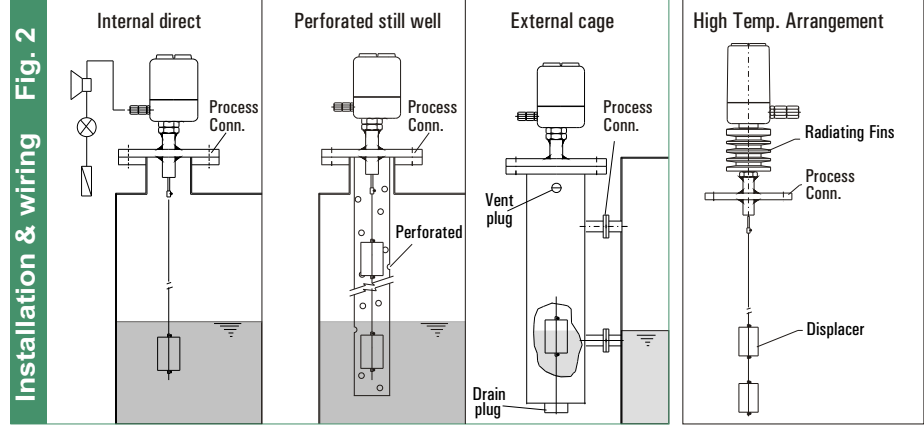
Construction & Operation: Fig.1

Displacer is connected to coupler moving within a seal pipe by a flexible wire rope via a compression spring. The coupler is magnetically linked to a follower magnet, which operates a micro switch. The status of "Displacer Immersion in Liquid" during "Rising & Falling Level" exerts a buoyant force on it equivalent to liquid displaced. (Archimedes Principle). This force effects a vertical displacement of displacer, which changes the spring tension and causes the coupler resting on it, to move "In & Out" of the follower magnets field. This attracts and releases the follower magnet resulting in "Changeover" of microswitch contacts.

- Wide choice of switching functions.
- Suitable for large tanks up to 15 meters.
- Site adjustable switch points.
- Customised for high temp., high pressure & vacuum service.
- Reliable performance in turbulent liquids even without still pipes.
- Easy transportation of long range switches.
- Enclosure : W-proof-IP-66, Ex-proof-Gr II A & II B or II C



S P E C I F I C A T I O N S	Enclosure	: Cast AL, WP-IP66, Cast AL Ex-proof Gr. II A & II B or II C
	Conduit Connection	: Brass 3/4" ET or 1/2" NPT
	Measuring range	: 200 mm ~ 15000 mm
	Operating Differential	: Type - A & C : 40±5 mm / Type - B : Adjustable / Type - E : 65 ± 5 mm
	Switch Type	: Micro switch
	Switch Contacts	: 2 SPDT (2 NO + 2 NC) @ 5A, 230 VAC (Resistive)
	Switch Action	: Bistable
	Terminals	: To suit 1.5 mm ² conductor
	Flexible Rope	: SS 304, SS 316, PP, PTFE
	Displacer	: SS 304, SS 316, PP, PTFE
	Spring Housing	: SS 316, PP, PTFE
	Spring Material	: SS 316, SS 316 with ECTFE coating
	Process Connection	: Flanged - MS, SS 304, SS 316, PP (SS clad), PTFE (SS clad)
Perforated Still well	: MS, SS 304, SS 316, PP, (65 NB)	
External Cage	: MS, SS 304, SS 316, PP (80 NB)	
Max. Temperature	: 0-200°C (without radiating fins) 0-300°C (with radiating fins) (Contact factory for temperature more than 300°C)	
Max. Test Pressure	: Vacuum to 40 Kg./cm ² (Contact factory for pressure more than 40 Kg./cm ²)	
Min. Sp. Gravity	: 0.7 (Contact factory for Sp. Gr. less than 0.7)	



Installation : The switch can be installed internally or externally as shown in Fig. 2. Perforated still well is recommended for tanks with excessive turbulent liquids. The microswitch contacts being rated for 5A. at 230 VAC. can be directly wired to control devices viz. Solenoid valve or pumps, through a PVC cable of 1.5 mm²

