

LEVEL SWITCH

DISPLACER TYPE

INTRODUCTION

Displacer level switch is used where High temperature and High Pressure liquid level control is required. It gives potential free 5A@250VAC 1C/0 or 2C/0 contacts for direct interface to Solinoide Valves, Relays Contactors, and Panel Lamps etc.

It consists of a displacer, process flange, spring, enclosure, actuator & microswitch, flexible wire rope. Displacer is designed to suit the specific gravity of liquid. Displacer is connected to a coupler by flexible wire rope through a compression spring. The level of liquid inside the vessel or tank is indicated by the movement of the displacer. It works on the Archimedes principle. Displacer moves up & down with the rising or falling liquid level. As the liquid level rises it applies a buoyant force on the coupler in proportion to displaced liquid. It releases the spring & moves the actuator in the magnetic field to actuate the switch. As the liquid level falls spring gets its normal position & the switch releases.



FEATURES

- Rugged construction
- Easy mounting with flanged connection
- Low maintenance
- Safe for high temperature, high pressure applications
- Enclosure weather proof IP66, Ex-Proof Fr. IIA, IIB & IIC
- Reliable performance
- Sealed microswitch as per request

APPLICATION

- Chemical, petrochemical industry, Refineries
- Pharmaceutical industry
- Pressure vessels, Storage tanks
- Marine industry
- Water & waste water treatment plants
- Underground tanks
- Boiler feed water

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SPECIFICATIONS

All specifications at ambient of 25 °c, unless specified otherwise

Mounting	Top or side mounted with external cage
Range	200mm to 15000mm
Differential	40±5mm/65±5mm
Switch Type / Action	Microswitch with Bistable action
Switch contacts	2SPDT(DPDT), 5A at 250V AC
Process Conn	Flanged CS, SS304, SS316, PP & PTFE (MS clad)
Enclosure	Cast Al WP to IP 66 or Ex proof to Gr IIA & IIB or IIC
Conduit conn	½" NPT, ¾"ET
Displacer	Ø60mm SS304, SS316, PP, PVDF
Max. Temperature	0-200 °C / 0-300 °C (with radiating fins)
Max. Pressure	40 kg/cm ²
Sp. Gravity of fluid	0.8
Wetted Parts	SS304/SS316/PP & OTHERS
ACCESSORIES	
Perforated still well	CS/ SS304/SS316/PP & Others
	Size 65 NB
External cage	CS/ SS304/SS316/PP & Others
	Size 80NB
INSTALLATION	
	Top mounting & side mounting are the two ways of the installation of the Displacer Level Switch

ORDERING INFORMATION

Order code : 2523

- Model no
- liquid
- Sp. Gr.
- Op. Temp & Pressure
- Process connection
- MOC

CAT#525R0/

ENQUIRIES

Instruments: sales@radix.co.in
Sensors: sensors@radix.co.in
Gauges: gauges@radix.co.in
Automation: automation@radix.co.in

RADIX ELECTROSYSTEMS PVT LTD
 EL-135/136/137, Electronics Zone
 TTC Indl. Area, MIDC, Mahape
 Navi Mumbai - 400 710, India
 Cell : 0-8451040263 | sales@radix.co.in

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 www.radix.co.in