



PETROTECH ENGINEERS

TOP MOUNTED MAGNETIC FLOAT LEVEL SWITCH



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TOP MOUNTED MAGNETIC FLOAT LEVEL SWITCH

PRODUCT DESCRIPTION

Petrotech Top Mounted magnetic float level switch consists of magnetic float moving on guide tube, which houses hermetically sealed reed switches at preset levels. The float follows liquid level and magnetically actuates reed switches at preset levels to change over contacts. Single or multiple switching is effected through single or multiple floats as required by applications.

APPLICATION

- Oil/Water Separators
- Diesel Tanks
- Fuel/Oil Tank and Transfer Systems
- Fuel Tanks Management
- Dosing Tanks in ETP
- Chemical Processing and Storage Tanks
- Lubrication Equipment
- Heating Ventilation & Air Conditioning
- Food Processing Equipment and Marine Services

FEATURES

- All Stainless Steel
- Sturdy and Versatile
- Easy Installation
- Rugged Construction
- Hermetically sealed glass encapsulated reed switch

TECHNICAL SPECIFICATION

Mounting	: Top
Terminal Enclosure	: Cast Al. IP66 or Ex d Gr.IIB or IIC (CCOE certified) or ATEX Ex d Gr. IIB
No. of Floats	: Single / Multiple (Max 5)
Float MOC x Size	: SS316 x Ø 28, 40, 52, 60, 75 PP x Ø25, 50, PVDF ctd. SS x Ø60
Liquid Specific Gravity	: 0.65 to 1.2 depending on float size
Process Connection	: Flanged, Screwed or Tri-clover
Switch Type	: Glass encapsulated hermetically sealed reed switch
Reed Switch Rating	: 40 VA or 120 VA, NO (SPST) 5 VA or 60 VA, 1 C/O (SPDT)



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- Differential : ± 5 mm
- Accuracy/ Repeatability : ± 2 mm/ ± 1 mm
- Max. Temperature : 70 C (PP), 100°C (PVDF ctd SS), 125°C (Metallic)
- Max. Test Pressure : 2 Kg/cm² (PP), 10 Kg/cm² (Metallic/PVDF ctd SS)

BILL OF MATERIAL

SR NO	PART DESCRIPTION	MATERIAL
1	HOUSING	ALUMINUM DIE CAST FLAME PROOF FOR SUITABLE GROUP IIA/IIB
2	HEX NIPPLE	SS 304
3	HEX PLUG	SS 304 2" NPT
4	FLOAT	SS 304 $\varnothing 43 \times 56$
5	FLOAT STOPPER	SS 304
6	STEM PIPE	SS 304 $\frac{1}{2}$ "
7	SWITCH	REED SWITCH

STEM LENGHT(L)	SWITCHING LEVEL(D1)	SWITCHING LEVEL(D2)
1500 MM	100 MM	1150 MM

Internal Circuit Diagram Illustrating Reed Switch Contacts & Termination

REV	DESCRIPTION	DATE	DESIGN	CHECKED	APPROVED

PETROTECH ENGINEERS
485-488/43 GIDC, MAKARPURA
VADODARA - 390010, GUJARAT, INDIA.

CL:0001

TITLE: TOP MOUNTED LEVEL SWITCH

DESIGNER	DRAWN	CHECKED	SCALE	SHEET	TOTAL

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SR.NO	SELECTION	SUFFIX CODES	DESCRIPTION
1	Level Switch Model		
		MPLS - 150	Top mounted level switch
2	Housing Material		
		DA	Die Cast Aluminium
		S4	SS 304
		S6	SS 316
3	Process Connection		
		25B	1" BSP (M)
		40B	1 1/2" BSP (M)
		50B	2" BSP (M)
		25N	1" NPT (M)
		40N	1 1/2" NPT (M)
		50N	2" NPT (M)
		92S	92 PCD SQUARE FLANGE
		92R	92 PCD ROUND FLANGE
		2AR	2" ASA 150# RF FLANGE
		3AR	3" ASA 150# RF FLANGE
		4AR	4" ASA 150# RF FLANGE
		2BR	2" ASA 300# RF FLANGE
		3BR	3" ASA 300# RF FLANGE
		4BR	4" ASA 300# RF FLANGE
	O	Other	
4	MOC Of Float		
		PP	Polypropylene
		S4	SS 304
		S6	SS 316
		MN	Monel
		HC	Hastalloy C6
		S6L	SS 316L
5	Probe Length		
		S	Specify (0-3000 MM)

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6	No. Of Floats		
		F1	1 Float
		F2	2 Floats
		F3	3 Floats
		F4	4 Floats
		F5	5 Floats
		F6	6 Floats
7	Enclosure Protection:		
		STD	Standard
		I65	IP-65
		2AB	Suitable for Gas Groups IIA / IIB
		2C	Suitable for Gas Group IIC
8	Switching Points and Mode:		
		Lx	Please Sepcify the length in mm
		NO	Normally Open
		NC	Normally Closed

Ordering Example:

MPLS - 150-DA-50N-S6-1100mm-F2-I65-L1=500mm[NO];L2=900mm[NC]

Note : Due to continuous improvement, the specification may vary from time to time.

For non standard products/optional items, please contact factory for delivery and minimum quantity of order.



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