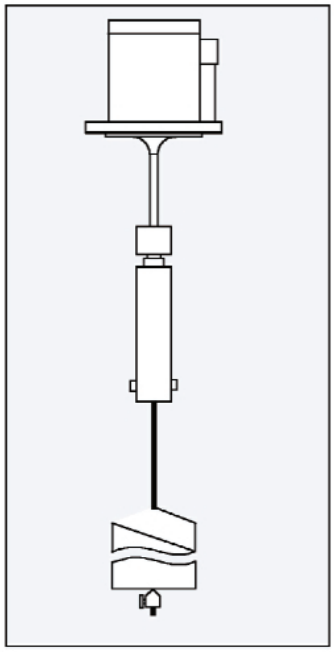
COBHAM FLUID SYSTEMS

PRODUCTS - Fluid Transducers

FLAMEPROOF DISPLACEMENT TYPE LEVEL CONTROLLERS

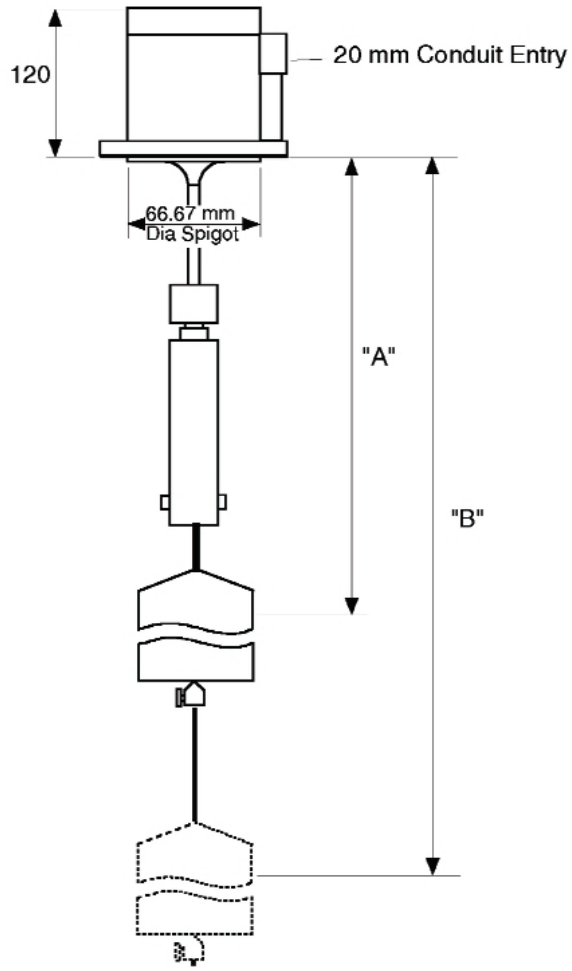


- **Single or Double Displacers**
- **Weatherproof to IP 65**
- **Up to 10 Metres Tank Depth**
- **Use with Viscous Liquids**
- **High and Low Alarms**
- **Stainless Steel Housing**
- **Approved to BS5501 IIC T6**

The displacement type float switch is based on the principle that a solid body immersed in a liquid is subject to an upthrust equal to the weight of liquid which it displaces. As this load is rising or falling so the magnet will rise or fall a pre-determined distance under the influence of the balance spring, thus operating the appropriate reed switch to achieve the requisite condition.

The switch can accommodate two separate reed switches so that if required up to two separate level indications can be obtained. The available reed switches are detailed in the table below.

A range of displacers for various specific gravities can be fitted and these are independently adjustable within the limits as specified. The standard specific gravity range is from 0.65 to 1.25 but above and below this can be made to special order.



SPECIFICATION

Materials of Construction:
Displacer - polypropylene
All other parts - Stainless Steel
Temperature Range:
Maximum 80°C
Maximum Working Pressure:
5 Kg/cm²
Displacer Availability:
Polypropylene: PP
Stainless Steel: SS
Reed Switch Availability:
See Table 1 Below
Weatherproof:
IP65

NOTES

1) Dimension "A" has a minimum switching level of 300mm for single level switches and 450 mm for dual level switches.

2) Dimension "B" has a maximum switching level of 10 M.

3) Type 60 and 500 reeds cannot be used on dual level Displacer switches.

TYPICAL ORDERING CODE

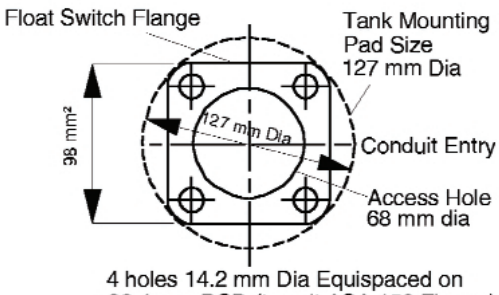
Single Level: FS4483/PP/50/MOR/4000
Dual Level: FS4442/PP/50/MOR/450/BOF/3500

Displacer Type
Reed Switch
Switching Action
Switching Level

Specification	Reed Switch Designation		
	Single Pole Single Throw (SPST)		Changeover (SPCO)
Type :	250 RS7	500 RS10	60 RS13
Max voltage AC	250	440	240
Max voltage DC	250		300
Max current amps	3.0	2.0*	2.5
Max wattage	250	500	60
Max surge amps	-	10*	-
Max operating temp	150°C	125°C	150°C
Min operating temp	-40°C	-50°C	-40°C
Contacts	Rhodium	Tungsten	Rhodium

Table 1 (* at 240V)

DRILLING DIAGRAM



4 holes 14.2 mm Dia Equispaced on 98.4 mm PCD (to suit ASA 150 Flange)

Terminal Block Connections:

Contact				Contact			
Single Level Type 500	2	Grey		Single Level Not Type 500	2	White	
	3	Grey			3	White	
Single Level Changeover	1	Black	C	Two Level Not Type 500	1	White	Top
	2	White	N/C		2	White	Top
	3	Red	N/O		3	Red	Bottom
					4	Red	Bottom

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A Flight Refuelling company

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