

## CABLE SUSPENDED FLOAT OPERATED LEVEL SWITCH - CFS

It is a simple, user friendly and reliable switch for liquid level detection. By selecting an appropriate float and cable length, it can be used for small or long range detection of liquids, with or without impurities, sanitary applications like drinking water and also for explosive liquids or liquids in hazardous areas. Besides, by using a number of cable floats with appropriate fixation points, it can be used for multipoint detection.

### CONSTRUCTION & OPERATION

It consists of a float, integral with a 3 core electric cable. A fixed microswitch and a moving steel ball are enclosed within the float casing. A change in liquid level causes the float to tilt up or down around a pivot, provided in the form of an adjustable stopper or support pipe, at an angle and in the process, actuating a steel ball to move and operate a micro switch plunger to close or open an electrical circuit with potential free contacts, to operate auxiliary electrical devices like alarm, pump and solenoid valve.

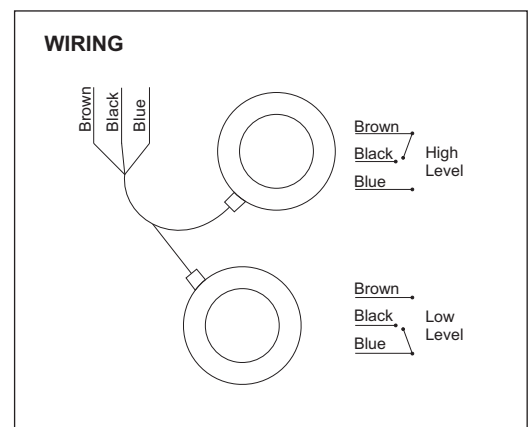
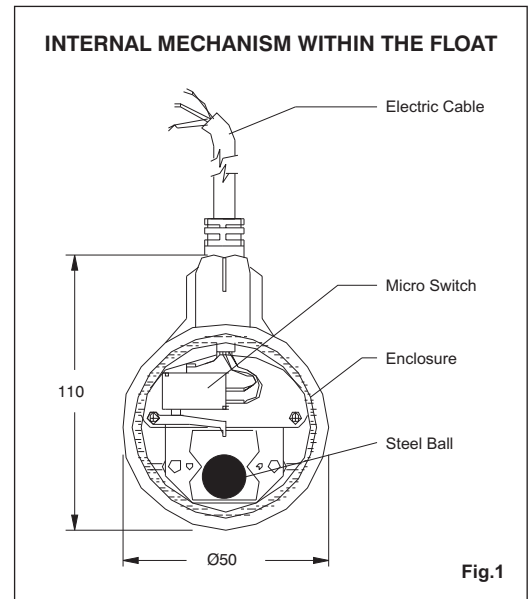


### SPECIFICATIONS

Cable Float	:	Refer fig.1
Float Protection	:	WP IP - 68
Rating of Micro switch	:	16A, 250V AC
Switching Angle	:	+ _45°
Max. Temperature	:	50°C
Max. Pressure	:	1bar
Terminal Enclosure	:	Cast Al, WP IP - 66
Cable Gland	:	Polyamide x PG 13.5
Process Connection	:	Flanged x 1-1/2", 3", 4" NB, BS-10 T 'D'
Integral Cable Length	:	5 or 10 mtrs (larger lengths on request)
Contact Type	:	Microswitch (SPDT)
Float MOC	:	PP
Cable	:	Neoprene or PVC Ø9mm/3x1mm <sup>2</sup>
Min. Liquid Sp. Gr.	:	0.8
Adjustable Stopper	:	Rubber, ZØ50 x 40mm H or SS316
Support Pipe	:	SS304/ PP / PVC

### APPLICATION

Used in sumps, Sewage, factory drainage, sludgy & soil water containing suspensions for automatic switching of pumps, submerged pumps, solenoid valves, alarms etc.,



## INSTALLATION MODES

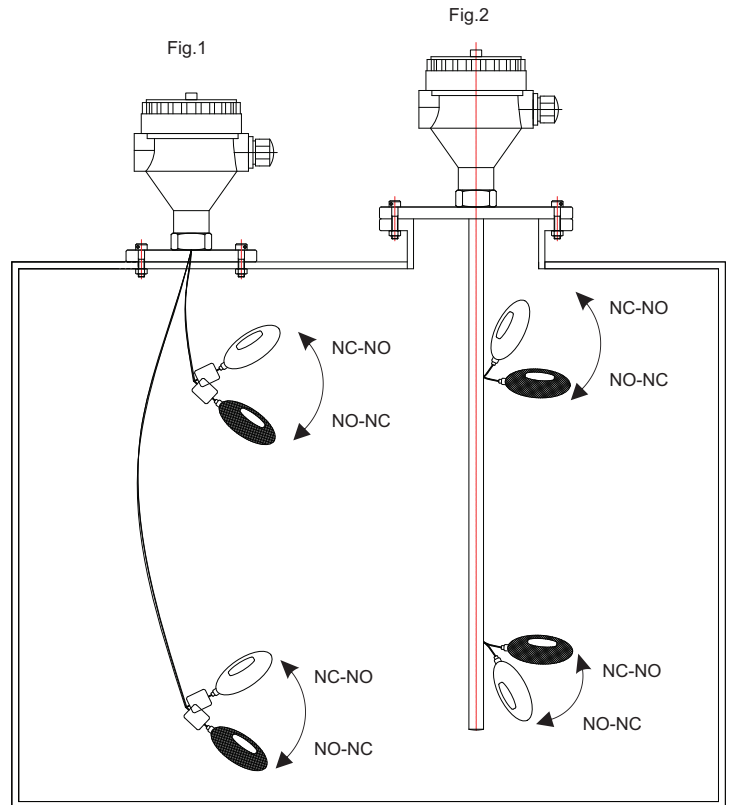
Provide a fixation point to the cable, to act as a pivot for the float to achieve switch actuation at preset level. The location of the fixation point depends on the preset level, float shape, weight and its differential angle.

### FIGURE 1 - TOP MOUNTED WITH ADJ. STOPPER :

The cable is suspended through a top clamp and an adjustable stopper, which moves freely along its length. It is positioned at a fixed point through an internal o-ring, to provide a fixation point.

### FIGURE 2 - TOP MOUNTED WITH SUPPORT PIPE :

A support pipe alongwith required number of cable float switches is suspended from tank top through a flange. The open cable ends, terminate into an IP66 enclosure. The cables are tied / clamped to the support pipe at various points, to provide number of fixation points.



## ORDERING INFORMATION

SPECIFY PART NO. →

CFS

CFS

EXAMPLE →

CFS

### 1 ENCLOSURE

- A. Not Provided
- B. Cast Al. Weather proof IP - 66
- O Others

### 2 CONSTRUCTION

- 1. Adjustable stopper
- 2. Support Pipe
- O Others

### 3 PROCESS CONNECTION

- 1. Not Provided
- 2. MS x 4" NB, BS-10 T 'E' flange
- 3. PP (MS Clad) x 4" NB, BS-10 T 'E' flange
- O Others

### 4 NO. OF SUSPENDED FLOATS

- 1. One
- 2. Two
- 3. Three
- 4. Four

**ORDERING INFORMATION :** Specify Part No., Liquid, Specific Gravity, Operating Temperature & Pressure Also specify preset switching points (Meters) for each suspended float (D1, D2, D3 & D4)

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Note: All dimensions in MM, unless otherwise specified.