

# Automated Environmental Systems IWF Float Switch Owner's Manual

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**Automated Environmental Systems IWF Float Switch**



## Product Information

### Specifications

- Product Name: Rubber Cable IWF – Internally Weighted Float Switch
- Cable Type: Three-core rubber H-05RN-F cable
- Contact Rating: Nominal Voltage 250V, Rated Current 6A
- Construction: Polypropylene casing, silver contact micro-switch arrangement
- Operating Depth: Minimum 330mm

## Product Usage Instructions

### Installation

1. Ensure the float switch is securely mounted in the desired location.
2. Connect the cable to the appropriate power source following local regulations.

### Operation

1. Monitor the liquid level changes and observe the switch's response.
2. If needed, adjust the switch settings for optimal operation.

### FAQ

**Q: Can the float switch be used in highly corrosive liquids?**

A: The float switch is not recommended for highly corrosive liquids as it may affect its operation over time.

**Q: What is the maximum voltage rating for the float switch?**

A: The nominal voltage rating for the float switch is 250V; however, local regulations may limit the voltage used.

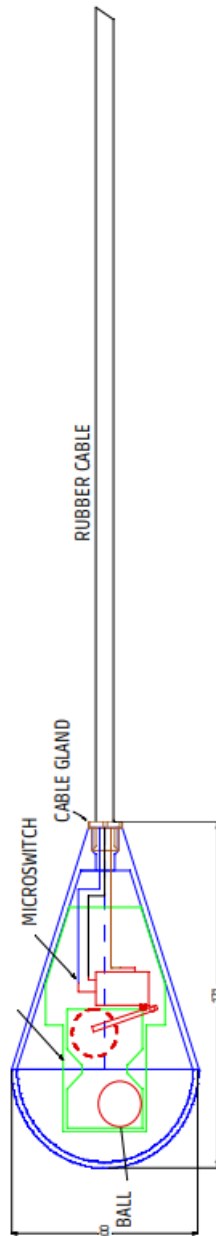
### IWF – INTERNALLY WEIGHTED FLOAT SWITCH

Float Switches are inexpensive and efficient liquid level detectors. They are simple to install, and designed for trouble free operation over a long life. The IWF is a plastic float switch using a three-core rubber H-05RNF cable. Opening and closing circuit operations are via a silver contact micro-switch arrangement.

### Construction

The unit comprises three major components:

1. The float chamber houses the micro-switch arrangement, totally sealed within a polypropylene casing, with a single pole double throw action.
2. The three-cored cable, connected to the micro-switch assembly inside the float chamber, is sheathed in H-05RNF rubber. This cable is supplied in three standard lengths, 10 metres, 20 metres and 30 metres  $\pm 5\%$  of the length quoted.
3. The counter weight is located inside the polypropylene chamber, hence giving the float a self tilting action.



## Mounting

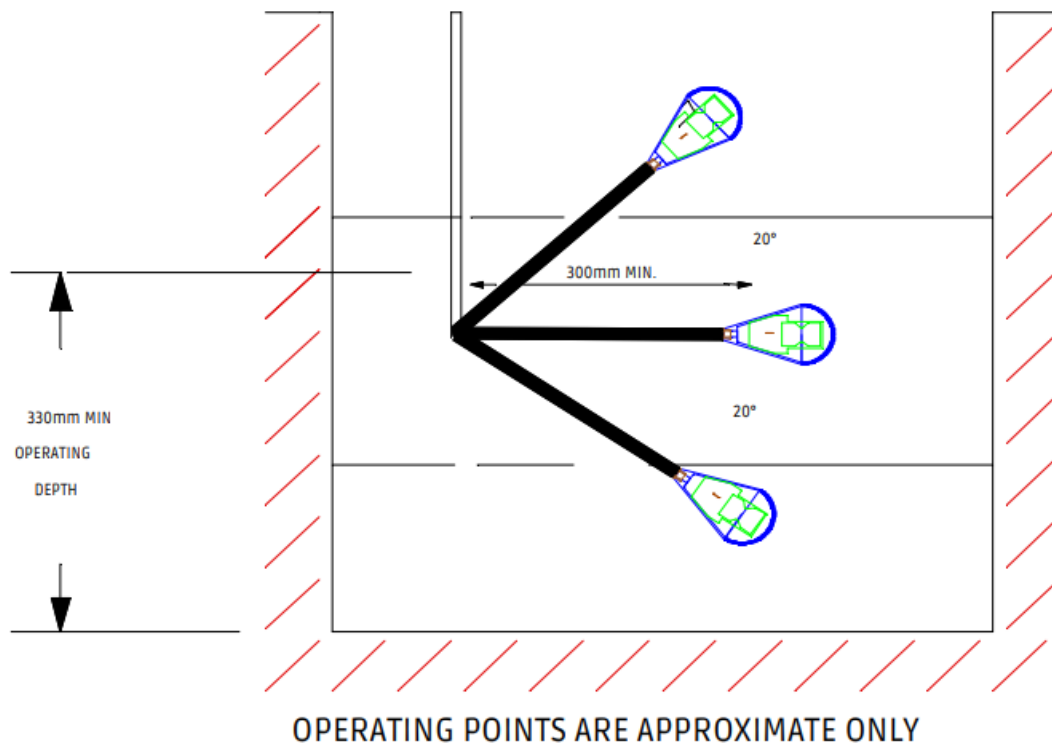
Whilst no hard and fast rules apply to the mounting of these units, the lead should be supported in an enclosed vessel, and in an open vessel it is advantageous to clip the lead to the side, especially if excessive turbulence is experienced.

To obviate the effects of rapid switching conditions that would result if such turbulence is experienced, it is advantageous to use a maintaining circuit which both safeguards the micro-switch and cuts out any chatter in the starters of associated pumps etc.

## Method of Operation

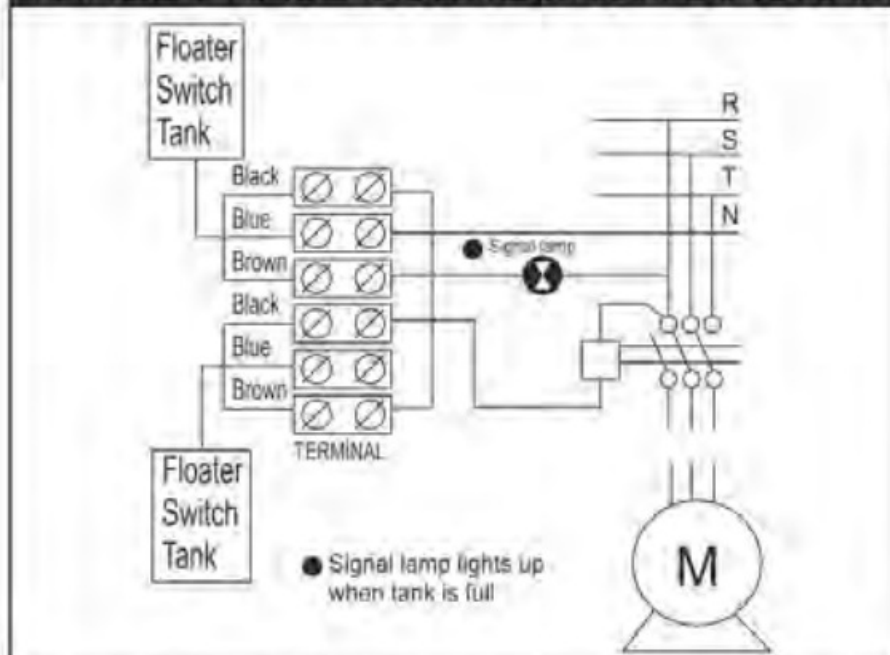
The micro-switch assembly inside the float, axially mounted in line with the weight, changes contacts according to the float's position, as in the diagram below. Therefore as the liquid level drops or rises slowly, a pump or flow control suitably connected, can be switched in or out to maintain an average level of the liquid. By connecting only one side of the switch, the unit can be also used to fill or empty the tank as required.

Dimensions, in mm, do not take into consideration any lateral swing of the cable.

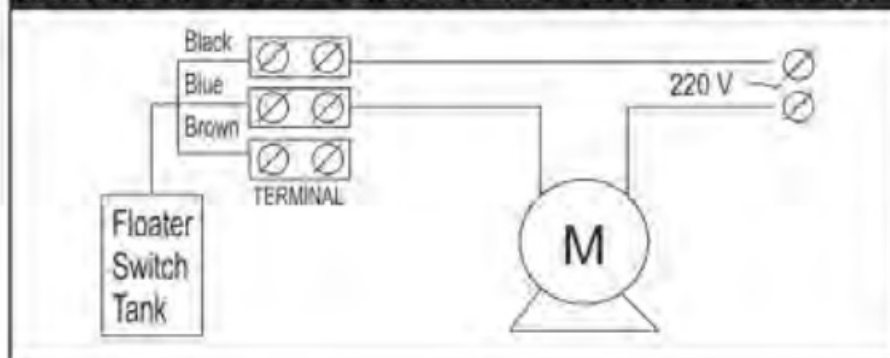


# FLOATER SWITCH

## THREE-PHASE CONNECTION DIAGRAM



## MONO-PHASE CONNECTION DIAGRAM









- **Contact** rating: Nominal Voltage 250V Rated Current 6A
- **NOTE** : Local regulations may limit the voltage.
- **Max.** Temperature – 85°C
- **Max.** submerged depth – 20 metres

### Chemical Resistance

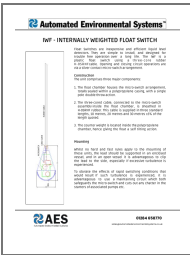
- Against Rating
- Lubricants
- Diesel oil & petrol Fair
- Vegetable & animal fats Poor
- Water Absorption Good
- Oxidation Good
- Ozone Good
- Sunlight Good
- Dilute Acids Good

- Alkalis Good
- Alcohols Good
- Salt water Good

Cable Colors	For Emptying	For Filling	Alarm High Level	Alarm Low Level
Black				
Blue / Grey				
Brown				

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Documents / Resources



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IWF Float Switch, IWF, Float Switch, Switch

References

- [User Manual](#)

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