

## ECONOMY FLO103 NON-MERCURY FLOAT SWITCH FOR GENERAL PURPOSE USE

Float Switches are economic and efficient liquid level sensors, simple to install, offering trouble free operation over a long life.

ECONOMY FLO103 is constructed from a polypropylene housing, moulded to a 3-core synthetic rubber cable, and contains an internal microswitch and rolling ball operator.

### Applications

- Level control and regulation in a tank well or sump
- Pump, motor and actuator switching systems (indirect)
- Filling and emptying of tanks and chambers
- Level indication by telemetry systems
- Flow control in flow channels
- Level warning by initiation of high or low level alarms



## CONFORMITY

### CE Compliance

Low voltage directive


### Other Conformity

The equipment has met the substance restrictions according to article 4 of the RoHS Directive

## SPECIFICATION

### Contact rating:

16A (Resistive) @ 250V 

4A (Inductive) @ 250V 

**Frequency:** 50/60Hz

**Maximum temperature:** 55°C

**Maximum Pressure:** 2 bar

**Cable:** 3-core x 1.0mm<sup>2</sup> H07 RNF RUBBER

### Weight with cable:

10 metre: 1.25kg ±5%

20 metre: 2.25kg ±5%

30 metre: 3.25kg ±5%

40 metre: 4.25kg ±5%

50 metre: 5.25kg ±5%

### Options

Part numbers for suitable counterweights for this products:

LT/FLOCW-1

LT/FLOCW-2

LT/FLOCW-3

LT/FLOCW-4

## PROPERTIES

### Dimensions

Dimensions of float switch:

103mm x 81mm excluding cable length

Dimensions of float switch packaging:

260mm x 260mm x 60mm up to 10m cable length

290mm x 290mm x 80mm up to 20m cable length

300mm x 300mm x 100mm up to 30m cable length

320mm x 320mm x 120mm up to 40m cable length

330mm x 330mm x 130mm up to 50m cable length

Please note packaging is not standard and therefore dimensions of packaged floats may vary slightly. The above dimensions are for guideline purposes only.

### Construction

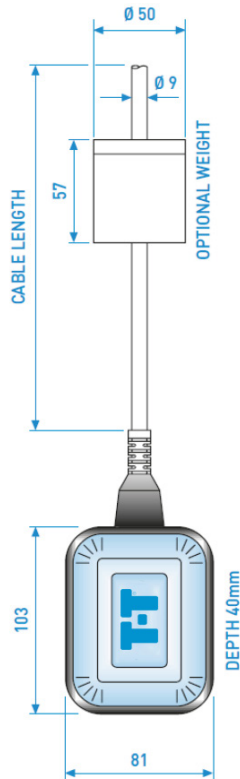
The unit comprises of the following components:

- The float chamber houses the microswitch arrangement with a single pole double throw action, totally sealed within a polypropylene casing.
- The 3-core rubber cable, is connected to the microswitch assembly inside the float chamber. This cable is supplied in standard lengths of 10 metres up to 50 metres.

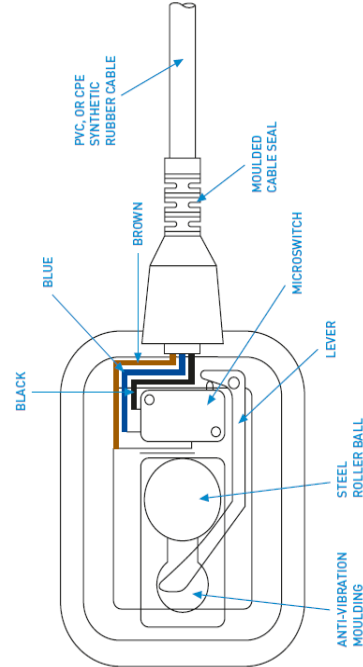
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**PROPERTIES**

**Dimensions**



**Components**



**OPERATION**

**Method of operation**

Switching is by internal ball-operated microswitch which changes contacts according to the attitude of the float.

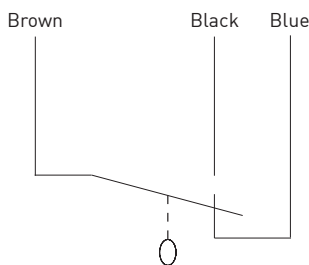
Please note:

- It is recommended that the float switch is connected to a low voltage power source
- Product should be installed by a competent and qualified person with suitable electrical protection
- Please refer to the operating manual for specific requirements.

**Mounting and operational instructions**

- Please refer to ECONOMY FLO103 operating instructions DATA612
- For further information and guidance regarding suitable applications please contact our sales office

**Cable colours and functions**



**Connections (for a pumping application):**

For emptying and for high level alarm use brown and black cable cores - the contact closes when up, opens when down.

For filling and for low level alarm - use brown and blue cable cores - the contact closes when down, opens when up.

For independent alarm operation a separate float would be required.