

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

GENERAL FLO102 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



COMPLIANCE

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
- 0.3A (Resistive) @ 250V

Weight with cable:

- 10 metre: 1.05kg ±5%
- 20 metre: 1.90kg ±5%
- 30 metre: 2.75kg ±5%
- 40 metre: 3.60kg ±5%

Frequency: 50/60Hz

Material: Polypropylene body and over-mould

Maximum Pressure: 5 bar

Cable: 3-core x 0.75mm² HO5 RNF synthetic rubber

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:

179mm x 85mm excluding cable length

Dimensions of float switch packaging:

300mm x 300mm x 100mm up to 20m cable length

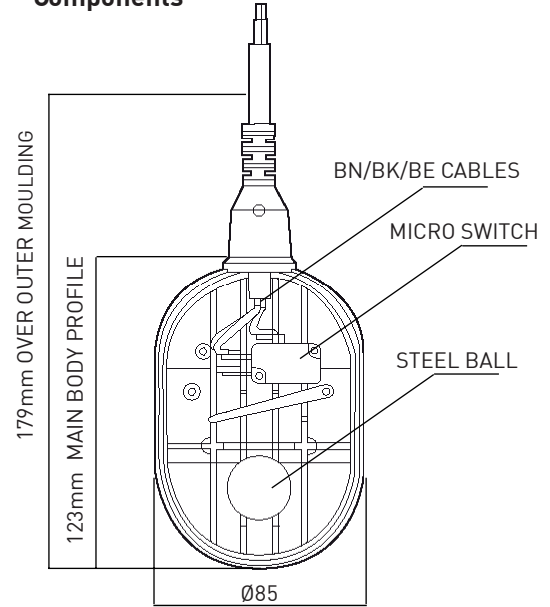
300mm x 300mm x 200mm up to 40m cable length

Construction

The unit comprises of the following components:

- The float chamber houses the microswitch arrangement with a single pole double throw action, sealed within a black RAL9004/4 polypropylene shell and overmould, providing suitability for a wide variety of liquids.
- The three core rubber insulated sheathed cable is connected to the microswitch assembly inside the float chamber. This cable is supplied in standard lengths of 10 metres up to 40 metres.

Components



OPERATION

Method of operation

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

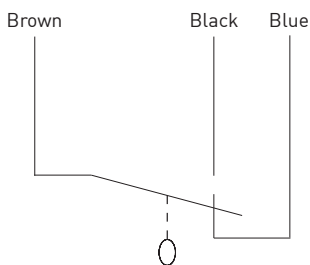
Please note:

- 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 GENERAL FLO102 operating instructions DATA1673
- 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.