

# Gentec Float Switches

Float Switches contain a reed switch with an actuator magnet in the float. Material is glass filled polypropylene or nylon 6.6 moulding. Contacts close when the magnet assembly reaches the centre line of the main body. Normally open or normally closed operations depend upon orientation, i.e if the magnet floats away or towards switch. Detects rise or fall of liquid, as well as liquid flow or predetermined volume. Design allows fitting to be achieved both as an internal operation or externally if necessary.

**NOTE:** Suitable for control/signalling only ref: wattage.



### Mechanical Specifications

- ▶ Mounting position: Horizontal models +/- 30 degrees from horizontal
- ▶ Minimum operating angle: Horizontal models 5 degrees from mounting angle
- ▶ Maximum release angle: Horizontal models 40 degrees from mounting angle
- ▶ Shock\*: 50g for 11 milliseconds duration
- ▶ Vibration\*: 35g up to 500 Hz
- ▶ Nominal cable length: 0.5 metre

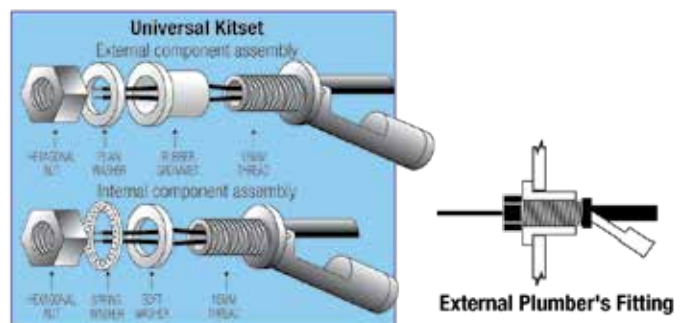
**Max. Current**  
**Example:**  
**For 15 Watts**  
**230 Volts = 65mA**  
 \* Reed switch only

### Environmental Specifications

Switch Action	Nylon	Glass Filled Polypropylene
<b>Operating Temperature Range</b>	-30°C to +130°C	-30°C to +110°C
<b>Minimum SG of Liquid</b>	0.85	0.65
<b>Minimum Viscosity of Liquid</b>	100	100
<b>Plastic Housing Water</b>	300	800
<b>Absorption of Equilibrium</b>		
@ 20°C & 100% RH	5.6%	0.09%
@ 100°C & 100% RH	5.6%	<0.9%
<b>Heat Distortion Temperature</b>		
4.5kg/cm sq. (67.6 psig)	245°C	154°C

### Chemical Resistance to:

	Nylon	Glass Filled Polypropylene
<b>Dilute Mineral Acids</b>	Poor	Excellent
<b>Concentrated Mineral Acids</b>	Poor	Fair
<b>Alkalis</b>	Excellent	Excellent
<b>Alcohols</b>	Good	Excellent
<b>Ketones</b>	Excellent	Excellent
<b>Aromatic Hydrocarbons</b>	Excellent	Fair
<b>Chlorinated Hydrocarbons</b>	Excellent	Fair
<b>Detergents</b>	Excellent	Excellent



Note: Suitable for control/signalling only. Refer to wattage.

Code	Material	Mounting Position	Mounting Method	Maximum Switching Voltage	Maximum Switching Current (Amps)	DC Contact Rating (Watts)#	Minimum Breakdown Voltage (VDC)	Initial Contact Resistance (OHMS)
<b>LS3031</b>	Nylon Hi Temp	Horizontal	Internal	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
<b>LS3035</b>	Nylon Hi Temp	Horizontal	Universal Kit for internal or external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
<b>VS3035</b>	Nylon Hi Temp	Vertical	Universal Kit for internal or external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
<b>LS8033</b>	Glass Filled Polypropylene	Horizontal	1/2" National Pipe Thread external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
<b>LS8035</b>	Glass Filled Polypropylene	Horizontal	Universal Kit for internal or external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25

The switching performance can be drastically affected if switch ratings are exceeded. Inductive, capacitive and tungsten filament lamp loads derate by 50%. All switch ratings are at DC resistive loads.

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.