

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
* Read switch only

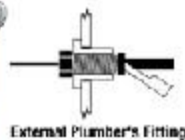
Max. Current
Example:
For 15 Watts
30 Volts = 65mA
Reed switch only

Environmental Specifications

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

Chemical Resistance to:

	Nylon	Glass Filled Polypropylene
Dilute Mineral Acids	Poor	Excellent
Concentrated Mineral Acids	Poor	Fair
Alkalis	Excellent	Excellent
Alcohols	Good	Excellent
Ketones	Excellent	Excellent
Aromatic Hydrocarbons	Excellent	Fair
Chlorinated Hydrocarbons	Excellent	Fair
Detergents	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)
LS3031	Nylon H Temp	Horizontal	Internal	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
LS3035	Nylon H Temp	Horizontal	Universal Kit for internal or external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
VS3035	Nylon H Temp	Vertical	Universal Kit for internal or external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
LS8033	Glass Filled Polypropylene	Horizontal	1/2" National Pipe Thread external fitting	100 (VDC) 250 (VRMS)	1.0	15	800	0.25
LS8035	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 deviate by 50%. All switch ratings are at DC resistive loads.