LRN Series

Reed float switch

Features

- High or low level sensing
- Normally open, normally closed or change over contact action
- Ratings up to 100 W
- Operates in liquid down to S.G. of 0.65
- Internal or external fitting
- Easy to install
- Cost effective

Description

The Honeywell range of horizontal, vertical and right angled float switches offers the design engineer a combination of versatility and reed switch reliability. A magnet located in the float is used to activate the reed switch either on a rising or falling liquid level and the design allows for high or low level sensing simply by rotating the switch through 180°. A range of internal or external mounting options is available and a universal mounting kit allows both internal and external mounting. Available in Nylon 6.6 and Glass Filled Polypropylene materials and a range of switching options. LRN float switches are suitable for use in the automotive, chemical, petroleum and food processing industries in signalling and control applications.

Typical applications

- Low coolant level sensing
- Fuel or oil level sensing
- Boiler level warning
- Solution monitoring
- Flood control
- Catering and vending machine
- Domestic appliance
- Medical equipment

Technical information

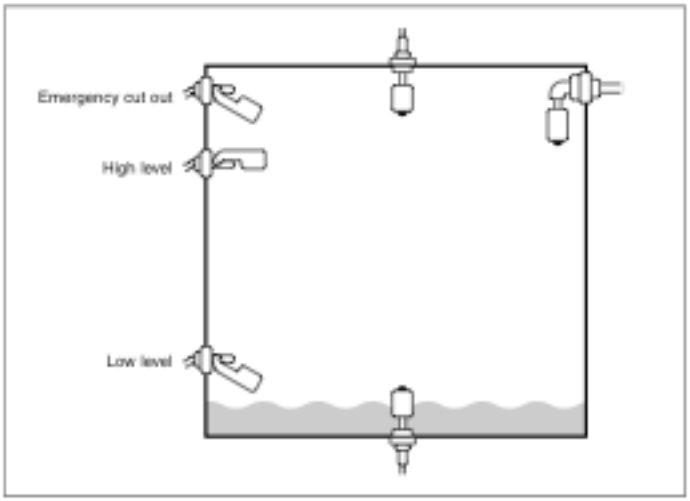
Mechanical						
Minimum operate angle (horizontal models)	5° from mounting angle					
Maximum release angle (horizontal models)	40° from mounting angle					
Shock *	50 g for 11 milliseconds duration					
Vibration *	35 up to 500 Hz					
Nominal cable length	0.5 m					
Environmental						
	Nylon 6.6		Diecast metal** body		Glassfilled**** polypropylene	
Operating Temperature Range	-30 °C to +130 °C		-30 °C to +130 °C		-30 °C to +110 °C	
Minimum SG of liquid	0.85		0.85		0.65	
Minimum Viscosity of Liquid (centipoise)	100		100		100	
Plastic Housing Water absorption of equilibrium at 20 °C and 100 % RH at 100 °C and 100 % RH	1.3 % 1.6 %		5.6 % 5.6 %		0.03 % <0.5 %	
Heat distortion temperature 4.5 kg/cm² (67.6 psig)	180 °C		245 °C		105 °C	
Electrical						
Switching options	0	1	2	3	4	5
Switch action	SPST	SPST	SPDT	SPST	TRIAC	TRIAC
Maximum Switching Voltage (Vdc) (VRMS)	100 120	100 250	100 70	100 120	 250	 250
Maximum Switching Current (A)	1.0	1.0	0.50	3.0	3.0	1.0
dc Contact Rating (W)	15 ***	15 ***	3 ***	100 ***	750	250
Minimum Breakdown Voltage (Vdc)	300	800	200	400	-	-
Initial Contact Resistance (Ω)	0.25	0.25	0.25	0.75	-	-

* Reed Switch Only

** Diecast metal model is fitted with Nylon 6.6 float as standard

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

**** For boiling water applications the maximum operating temperature limits are:-
Continuous boiling water 80 °C
Non continuous boiling water 100 °C



SERTEQUI
Equipamentos e Soluções desde 1997
Travessa da Prelada, n.º 106 | 4250-379 Porto
GPS N41.169040 W8.630748
Tel: 228 305 348/422 | Tlm: 964 096 068 | Fax: 228305425
www.sertequi.pt | geral@sertequi.pt