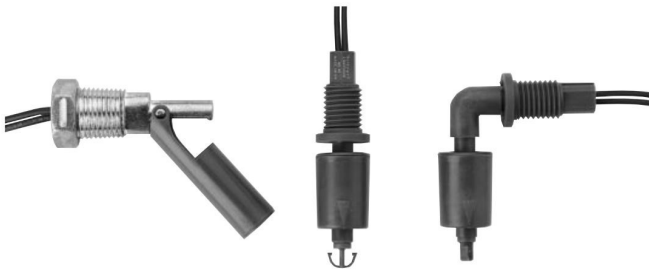


Reed float switch



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 Honeyw 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. RN 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

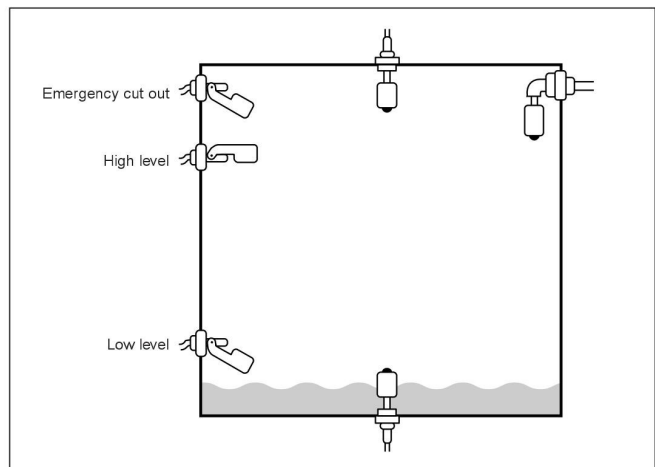
Mechanical	
Minimum operate angle (horizontal models)	5° from mounting angle
Maximum release angle (horizontal models)	40° from mounting angle
Shock *	50 g for 11 milliseconds duration
Vibration *	35 up to 500 Hz
Nominal cable length	0.5 m
Environmental	
	Nylon 6.6 Diecast metal** Glassfilled**** polypropylene
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	1.3 % 5.6 % 0.03 %
at 100 °C and 100 % RH	1.6 % 5.6 % <0.5 %
Heat distortion temperature 4.5 kg/cm ² (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)	100 100 100 100 - -
(VRMS)	120 250 70 120 250 250
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

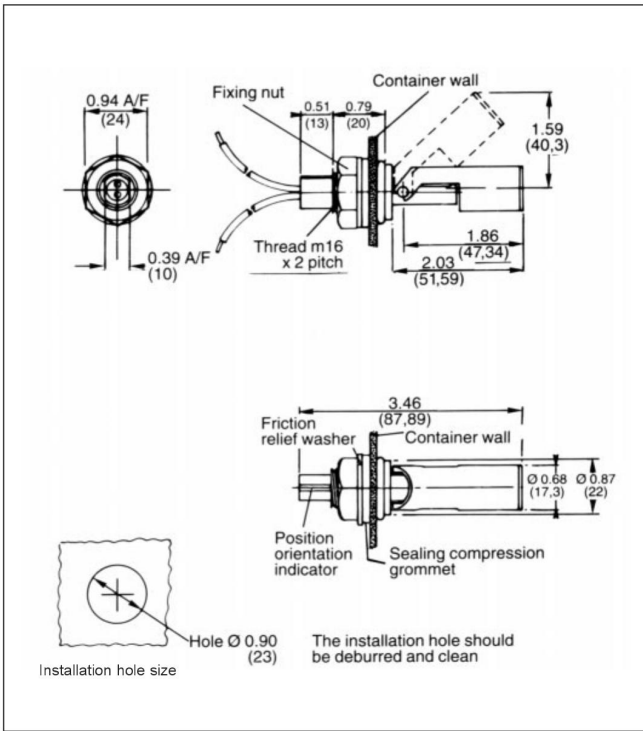
*** The switching performance can be drastically affected if switch ratings are exceeded. For inductive, capacitive and tungsten filament lamp loads, derate by 50%. All switch ratings are at dc resistive loads.

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

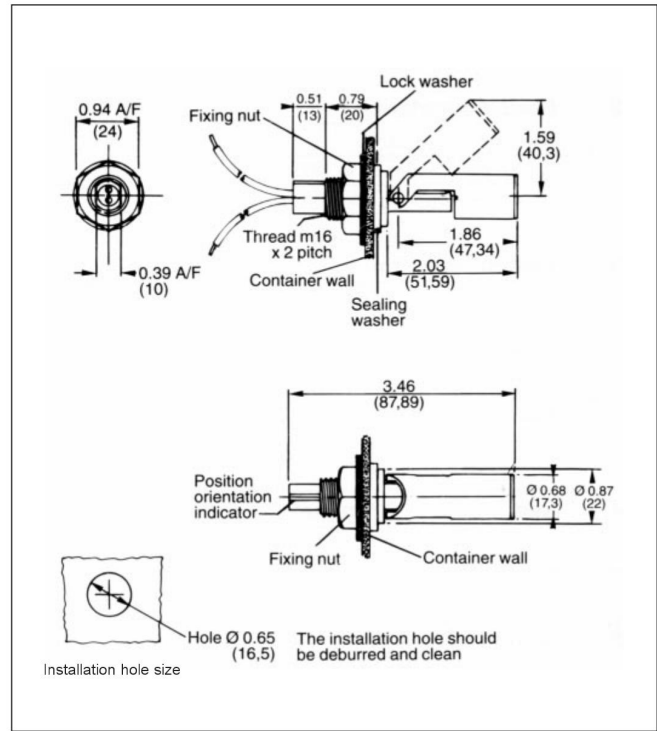


Dimensions in inches (mm) Horizontal models

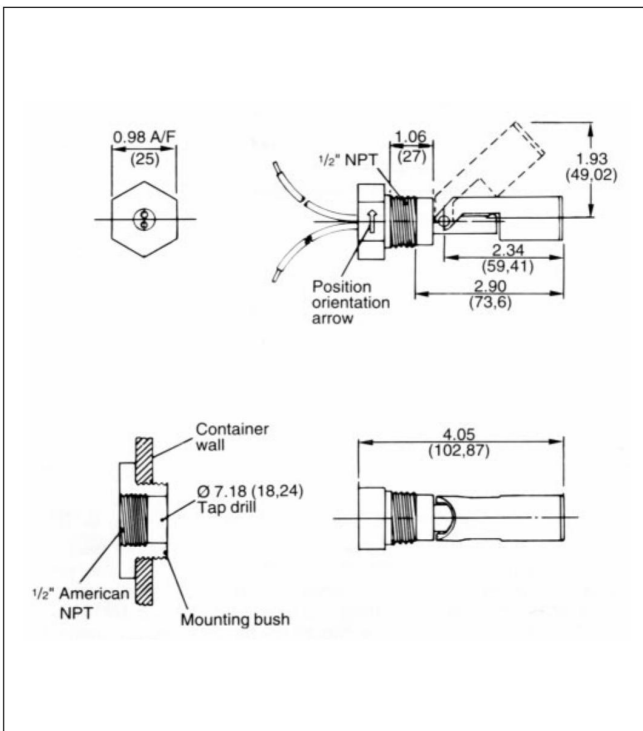
External fitting (compression grommet)



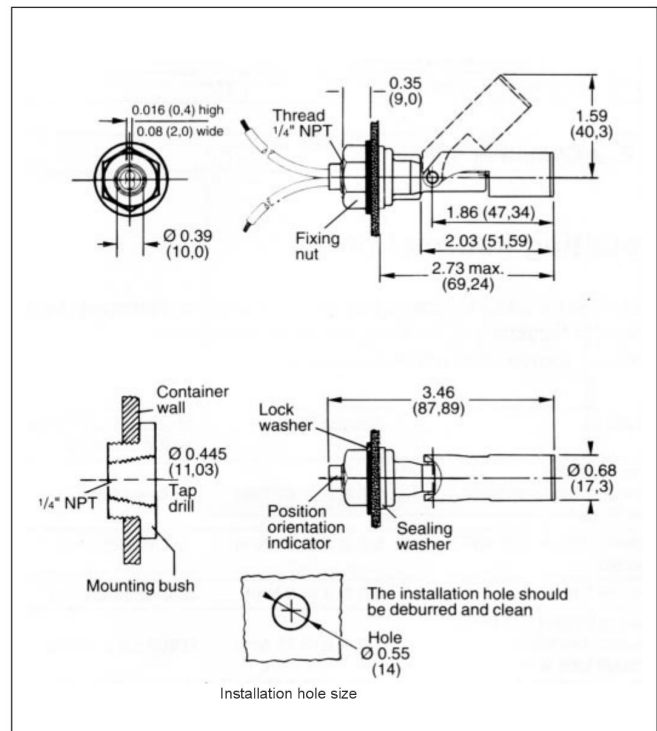
Internal fitting



External fitting 1/2" NPT (American National Pipe Thread)

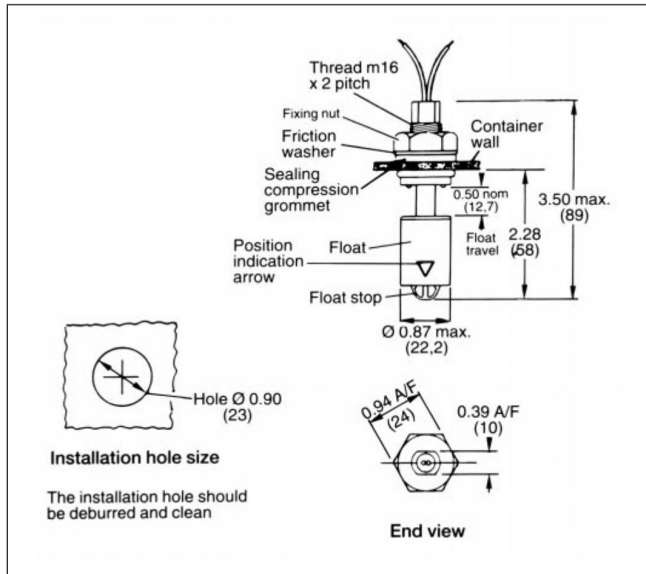


Internal fitting 1/4" NPT (American National Pipe Thread)

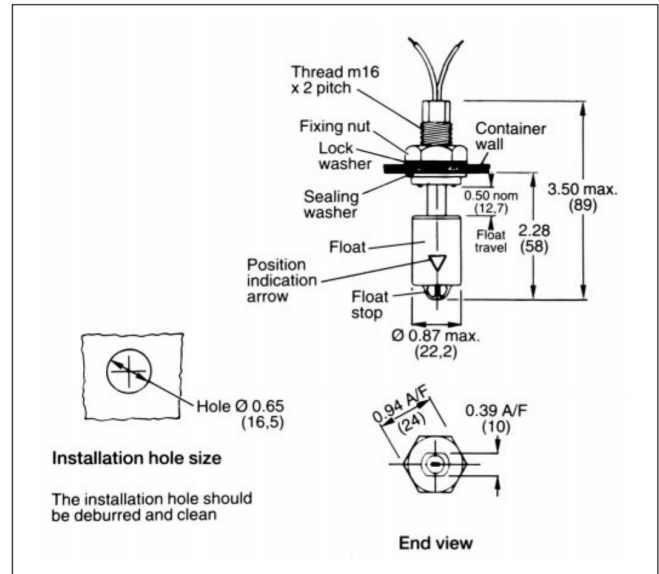


Dimensions in inches (mm) Vertical models

External fitting (compression grommet)

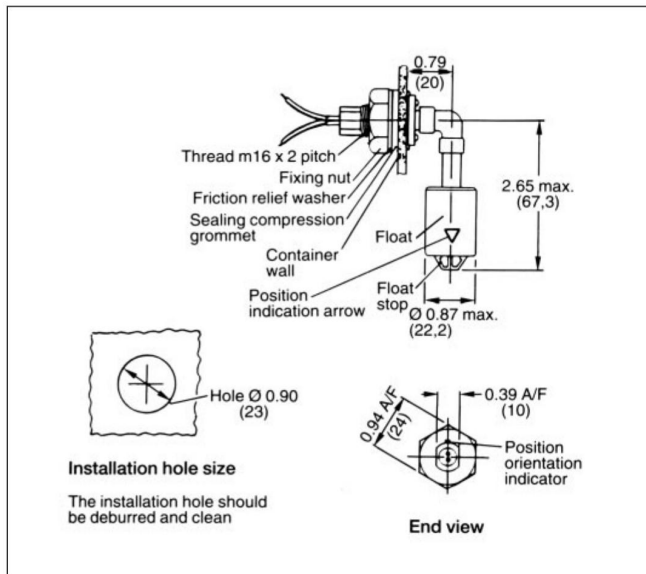


Internal fitting



Right angle models

External fitting (compression grommet)



Internal fitting

