

MAC 3[®]

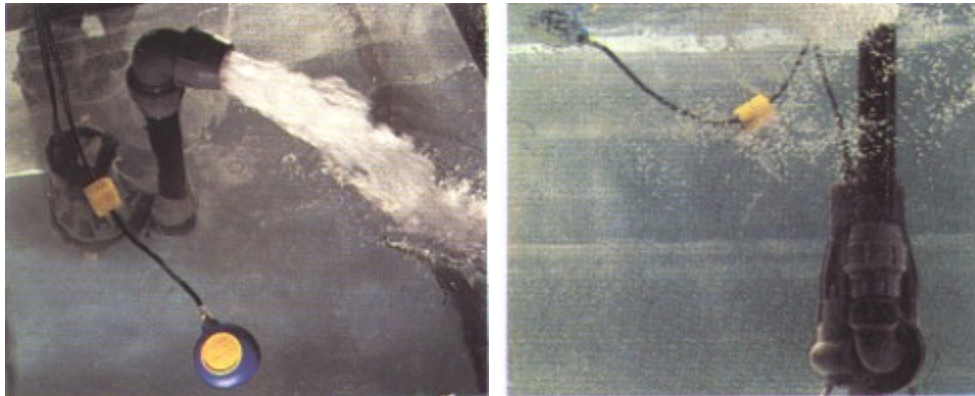


MAC 3 Liquid Level Switch



Cutaway view showing double chamber design

The MAC 3 is a double chamber design float-type, liquid level switch that uses a micro-type switch for the switching operation. **NO POTENTIALLY DANGEROUS MERCURY IS USED IN THIS SWITCH!** The case and cable are hermetically sealed via re-injection molding (**NOT BY GLUEING**). The latching ball design provides excellent resistance to nuisance trips due to fluid turbulence. The MAC 3 can be used safely in drinking water or any other fluids that are compatible with the body and cable materials as listed below. The MAC 3 is supplied SPDT for either PUMP UP or PUMP DOWN applications. The differential (inches pumped) can range from as little as 6 inches to 4 feet, depending upon tether length (cable length from tether point to switch end).



MAC 3 units in use with cable weights

SPECIFICATIONS

WETTED SURFACES:

Body - polypropylene, Cable - PVC or Neoprene available.

MICROSWITCH SPECS:

Contact rating: 15 amps @ 125/250 VAC 50/60 Hz (UL 90 amps locked rotor test)

Contacts: solid silver

Electrical Life @ maximum load: 100,000 operations

Mechanical Life: 10,000,000 operations

Insulation Resistance: 100 Mohm
Approvals: UL E23301 (N), CSA LR 23413

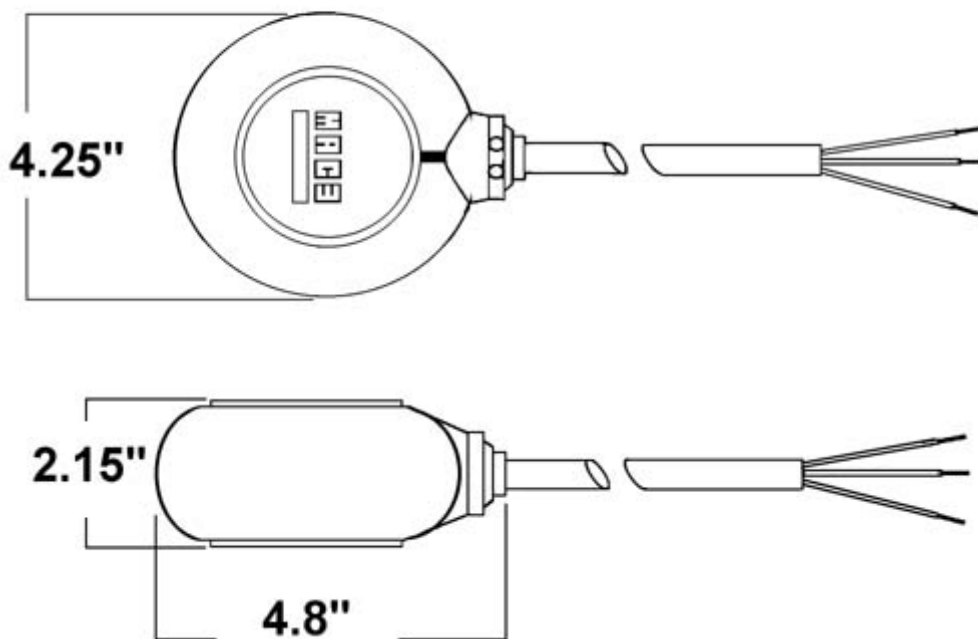
OPERATING SPECIFICATIONS:

Minimum fluid specific gravity: 0.72
Maximum pressure: 75 psi
Operating temperature range: 32 to 122 deg F (0 to 50 deg C)
Storage temperature range: -4 to 176 deg F (-20 to 80 deg C)

Stock cable lengths: 1, 5, 10, 15 and 20 meters - PVC or neoprene - other lengths available by special order.

ORDERING INFORMATION: model/cable type/cable length in meters - **EXAMPLE:** MAC3/PVC/5mts

DIMENSIONS / OUTLINE DRAWING

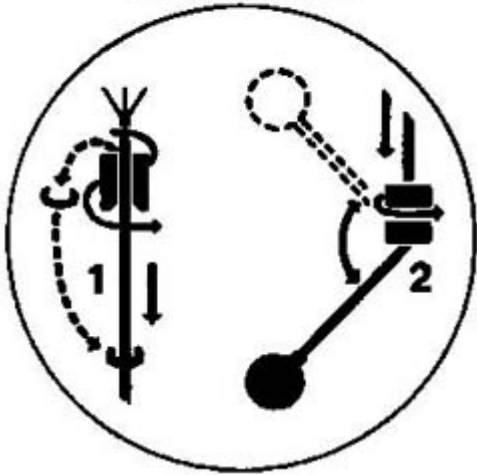


INSTALLATION INSTRUCTIONS

<p>A schematic diagram showing a float switch installed in a tank. The float is suspended from a vertical pipe. A dashed horizontal line indicates the liquid level. The float is tilted upwards, and a 100-degree angle is marked between the vertical pipe and the float arm. A pump is connected to the bottom of the tank.</p>	<p>A schematic diagram showing a float switch installed in a tank. The float is suspended from a vertical pipe. A dashed horizontal line indicates the liquid level. The float is tilted downwards, and a pump is connected to the bottom of the tank.</p>
<p>Float switch being used for a filling application being used with cable weight.</p>	<p>Float switch being used for an emptying application tethered to discharge pipe.</p>
<p>Uses wires: BLACK and BLUE. With these contacts the switch CLOSSES</p>	<p>Uses wires: BLACK and BROWN. With these contacts the switch OPENS when down and CLOSSES when up.</p>

when down and OPENS when up.

Counterweight Installation



COUNTERWEIGHT INSTALLATION

1. Insert the cable into the conical bottom of the counterweight. This should cause the plastic ring to become detached. Place the plastic ring (a rubber o-ring or plastic cable tie can be used instead if the plastic ring is missing) on the cable where the pivot point is desired. 2. Force the counterweight on the ring by rotating it and using slight pressure.