



Liquid Sensor Application Notes

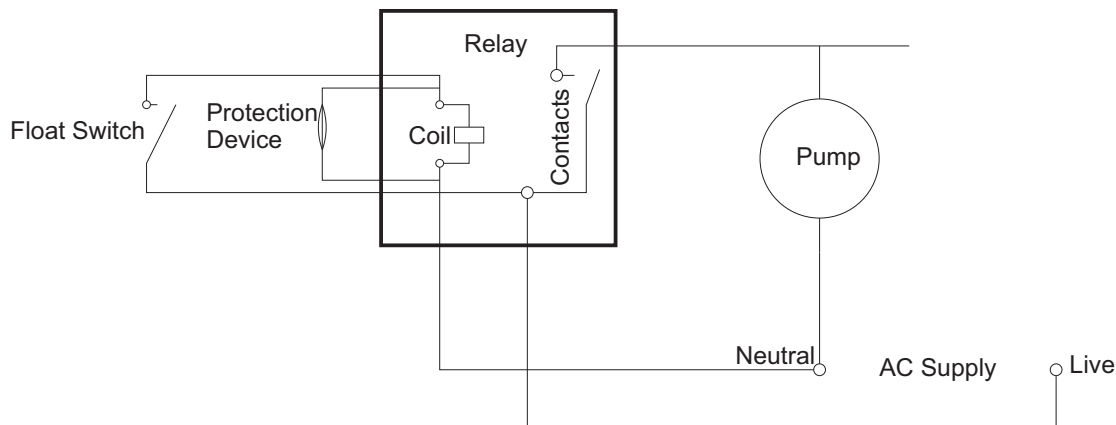
Pump Control Circuit for Automatic Tank Filling

This diagram is for the circuit to fill a tank, using one normally open float switch and a relay.

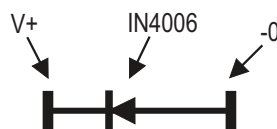
The pump will be on if the fluid level is below the float switch point.

When the fluid level rises to the float switch point, the pump will switch off.

This circuit will give an immediate reaction to rising and falling levels around the float switch point. This means it is suitable for applications where there is insufficient space to accommodate a dual level switch system.



It is advisable to fit a 375V bi-directional Transil across the relay coil terminals, if the control voltage is 240Vac. A 1A Silicon diode (IN4006) should be connected across the coil terminals, if the control voltage is DC (see diagram below). These measures are to avoid back e.m.f. induced overvoltage transients, which can cause damage to the reed switch contacts



Suggested Relays	RS Stk Nos
12Vdc	376-880 235-5497 245-2368
24Vdc	376-896 245-2374
24Vac	511-1212
110/115Vac	205-1230 245-2380
230/240Vac	376-903 235-5510 245-2396

Diode 1N4006 (for DC)	628-9530
Transient Voltage Protection Device (for AC)	543-8573 485-9430

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Fill Circuit 1 switch 2016