

Ultrasonic Sensor Installation for Models AD8 / AD9

General:

The AD8 / AD9 air and liquid detection sensors incorporate the latest generation of pulse-type technology. The circuitry employs state-of-the-art software algorithms hosted by an on-board microcontroller.

Electrical Connections:

The AD8 / AD9 is an integral sensor that consists of an ultrasonic sensor housing that has fixed electronics internal to the device. No external PCB is required for operation. The standard AD8 / AD9 is typically terminated with four discrete wires as follows.

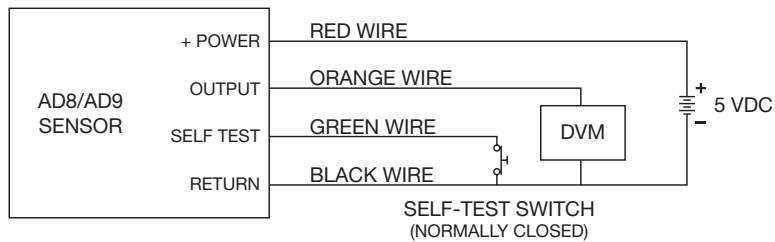
- Pin 1 - Red, 5.0 ±10% VDC Power Supply
- Pin 2 - Black, Ground/Output Return
- Pin 3 - Green, Self Test
- Pin 4 - Orange, Logic Output (high=wet)

Power supply - The power voltage will need to be regulated to 5VDC ±10%, the supply current will be typically 15mA. For sensor with an LED indicator the power supply current will be typically 24mA.

Output – The output is standard CMOS logic levels. Logic high = VCC - .5VDC @ 5mA

Self Test – The Self Test is active high and will toggle the output.

Standard Test Setup:



Mounting Consideration:

The mounting provision for the sensor is located on the underneath side of the housing. The sensor can be secured onto a customer supplied mounting plate using standard 4-40 screws. Screw protrusion into the sensor housing is to be 3/16 maximum. Torque force on mounting screws is not recommended to exceed 1.5 inch/lbs.

