

Installation for BD8/BD9 Sensors

General:

The BD8/BD9 are air and liquid detection sensors.

Electrical Connections:

The BD8/BD9 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 device has a Self Test input and three output options: standard TTL logic, NPN open collector and PNP open collector. The units are terminated with four discrete wires as follows.

Red: 5.0 or 8.0 to 24.0 VDC +/- 10% Power Input

Green: Self Test Input

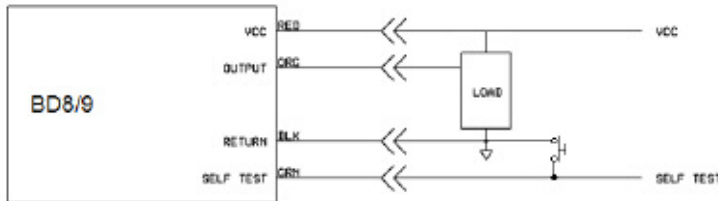
Black: Ground / Return

Orange: Output

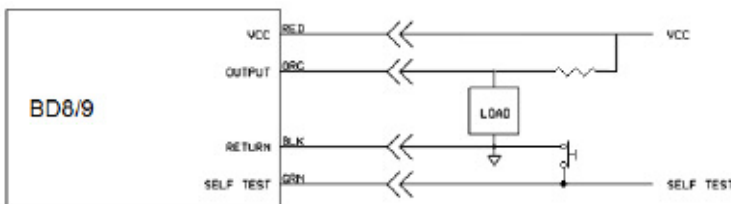
Standard Test Setup:

If the Self Test input is left floating or driven to a logic HIGH level then the test will run. For normal operation tie the Self Test input to ground or drive it with a logic LOW.

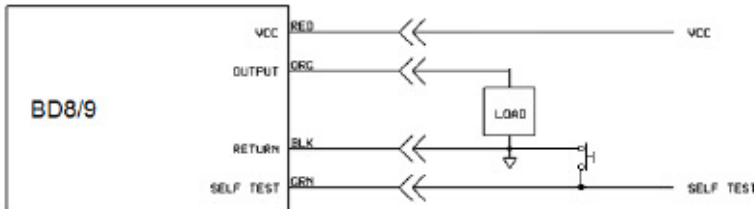
Output Option 1: TTL Logic



Output Option 2: NPN Open Collector



Output Option 3: PNP Open Collector



Mounting Considerations:

The base incorporates a slotted side feature to facilitate mounting. Using two No. 8 machine screws the sensor can be secured onto a customer-supplied mounting plate as necessary.

