

Bingo Fuel Detector

Last revised March 20, 2018

The Bingo Fuel Detector provides quick feedback as to the presence or absence of fuel. When fuel is present, a green LED is illuminated continuously. In the absence of fuel, a red LED flashes. A harness is included (80" length) for mounting of the LED. The harness includes a power connector and a toggle switch, which may select bright / off / dim for the LED.

Bingo Fuel will work with gasoline, diesel, jet fuel, and hydraulic fuel. It is approved for use from -20 to +55C. Power consumption is about 6 milliamperes. Works with 9 to 32V input.



1: Bingo Fuel Detector with harness and switch / LED assembly

FEATURES & SPECIFICATIONS

- ✓ Presence of fuel: green LED is illuminated. LED will softly blink every 15 seconds, indicating monitoring circuitry is active.
- ✓ Absence of fuel: red LED blinks.
- ✓ Tested with gasoline, diesel, jet fuel, hydraulic fluid.
- ✓ Screws into any 1/8" NPT fitting.
- ✓ 9 to 32V input voltage.
- ✓ Includes 80" wiring harness for remote LED (included).
- ✓ Power consumption: 6ma (LED illuminated)
- ✓ Principle of operation: capacitance sensor

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- ✓ May also be used as logic driver to other systems. Output interface is: Ground, Power, Green LED, current limit return (do not attach), Red LED.
- ✓ Serial data broadcast output is also a factory option. This provides the user with a raw broadcast of the diffraction value measured by the device.
- ✓ Green and Red output may be used as logic driver inputs to other devices. Active is = 3.3V; Inactive is = Ground.
- ✓ For usage with color blind operator, we note that the steady condition (fuel present) is discernible from the blinking condition (fuel absent)
- ✓ Water contamination may show as blinking red: fuel absent even though some fuel may be present. For enhanced water detection feature, consider the alternate product: Bingo Fuel / Water detector.

INSTALLATION

- Install unit into an 1/8" NPT fitting at point where liquid level detection is desired.
- Use ONLY brass nut to tighten; do not use potted enclosure.
- Use a thread sealer on the NPT fitting which is compatible with your liquid. If you are using this product with gasoline, ensure you use a gasoline compatible sealer.
- DO NOT OVERTIGHTEN.
- Install remote switch / LED assembly into panel; drill #10 (0.193") (4.90mm) for LED and 0.250" (6.35mm) for switch. The spacing between the two holes is 0.375" (9.52mm). Use the switch nuts to anchor the switch assembly and LED to your panel.
- We strongly recommend using a **separate power switch** for this product in your installation. A 1 amp fuse or breaker is recommended for one to three liquid detectors. We also suggest you clip off the 9V battery clip for wiring into your system; we use it for test at our facility.
- Do not attach anything to, or remove the 3 pin dongle programming port. This port allows factory firmware upgrade.

TESTING

- When power is applied, the unit will immediately indicate the presence or absence of liquid. If no indication is received, check your wiring or the position of the switch.

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NORMAL OPERATION

- The unit will indicate the presence or absence of fuel.
- Green indicates fuel is present.
- Red indicates fuel is absent or that probe failure has occurred.
- The switch has 3 positions: bright / off / dim.
- If water contamination occurs, the unit may provide unreliable results.
- USE COMMON SENSE IN YOUR INTERPRETATION OF THIS UNIT'S INDICATIONS. USE THIS UNIT AS AN ADDITIONAL INPUT INTO YOUR NORMAL PILOT FUEL CALCULATIONS, NEVER AS A PRIMARY INDICATOR OF YOUR FUEL SITUATION!**
- Unit may be recalibrated, but is not recommended without factory consultation. Sensor must be absolutely dry. Press the black pushbutton before applying power; apply power, count to 2, release pushbutton. Unit will blink red and green, then resume operation with new calibration. Calibration is permanent.

DISCLAIMER

Products from RADIANT Technology are not designed to be used in applications where their failure would endanger safe flight or human life in any way. They are intended solely for use in VFR conditions. They are not certified to meet any Technical Standard Order, and are not produced under a Parts Manufacturing Authority (TSO / PMA). As a result, they are suitable only for use in experimental and ultralight aircraft, and in Light Sport Aircraft, if meeting the requirements of the respective manufacture.

WARRANTY

Your new RADIANT Technology instrument carries a one year warranty. Please contact us at info@beliteaircraft.com should your product need warranty service. International warranty service will be charged US\$50.00 for repairs, which includes return shipping after repair. Payment must be received before service begins.

RETURN/REFUND INFORMATION

Must be returned in new, resalable condition within 14 days.

CONTACT

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