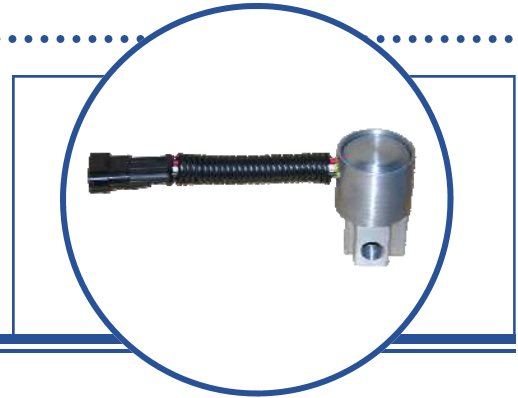


LP Gas Low Fuel Detection Sensor OPBA100



Features:

- Proprietary optical sensing technology
- Low fuel warning is unaffected by gas temperature or pressure
- Up to 17 minutes low fuel warning¹
- Intelligent bubble detection circuit to avoid false output
- Triple sealed design
- UL certified for ITPV LP-Gas accessories for engine fuel systems
- Ideal for harsh environments

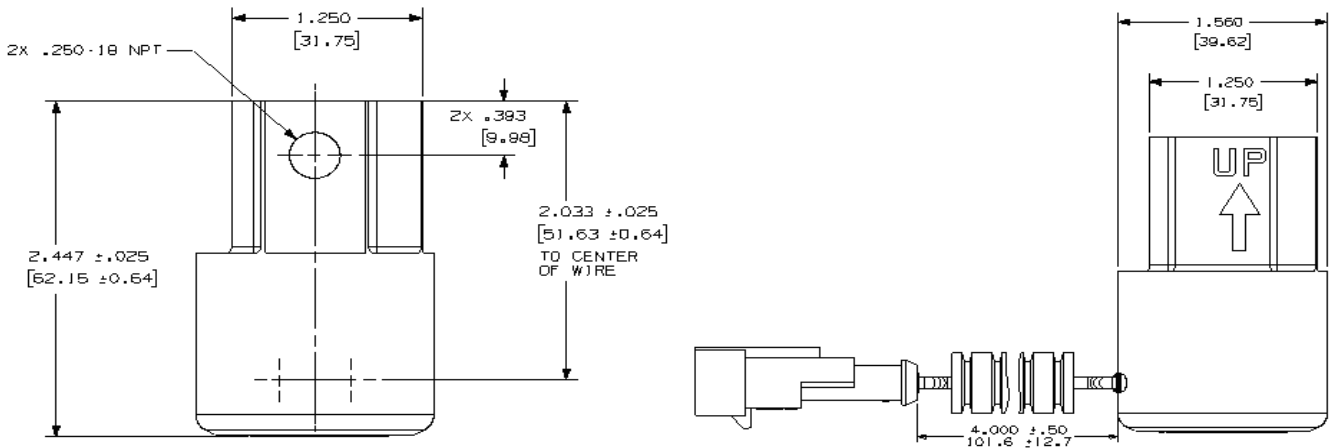


Description:

The OPBA100 is an LP gas low fuel detection sensor that is connected to the fuel delivery line which is typically used in equipment utilizing horizontal LP gas tanks. An optical sensor detects the transition in fuel from liquid to gas. The sensing period and output timing can be programmed to meet application requirements. The protected open collector output can drive low fuel warning lights or audible alarms.

For custom versions of this sensor, contact your Optek sales representative

Packaging Dimensions:



RoHS

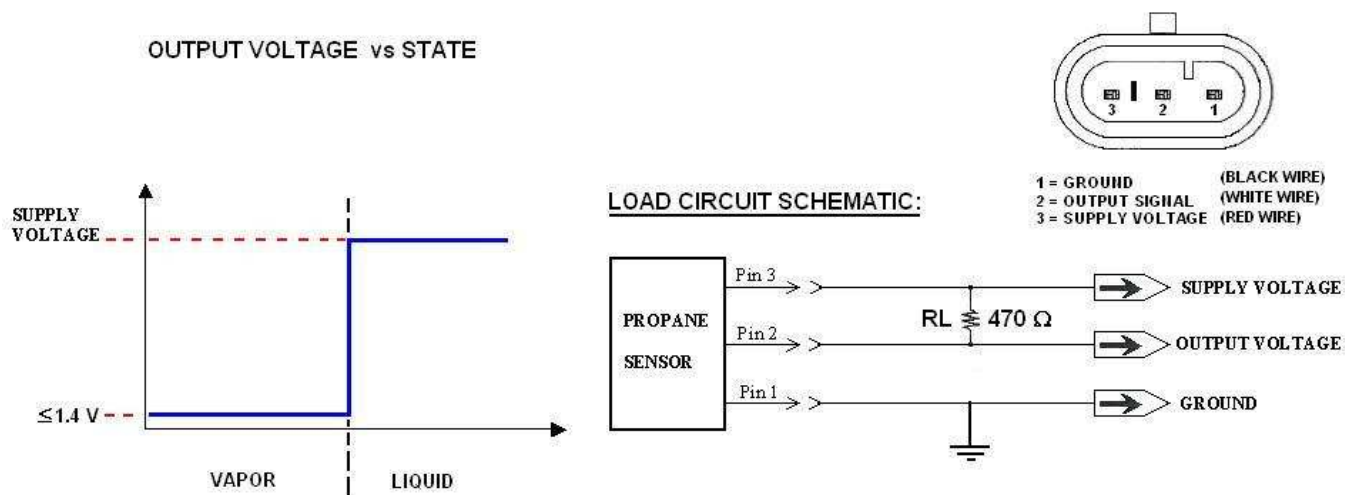
Temperature Ratings:

Storage Temperature	-40° C to 85° C
Operating Temperature	-40° C to 85° C

Output Characteristics

Sensor Output	Instantaneous output
Output Circuit Configuration	Open collector transistor
Supply Voltage	8V to 24V
Reverse Voltage Protection	-30V
Current Draw Max	25 mA

Typical Output:



If liquid is present the open collector transistor stays high (Indicator light or alarm OFF).
If vapor is present the open collector transistor pulls output to ground (Indicator light or alarm ON).

**LP Gas Low Fuel Detection Sensor
OPBA100**



Mechanical:

Typical Operating Pressure	275psi
Maximum Operating Pressure	400psi
Maximum UL Operating Pressure	1375psi
Burst Pressure	5000psi
Mating Connector	AMP Superseal 1.5 series 3 Pin PN: 282087-1
Connections (Inlet and outlet)	Standard 0.250in NPT (90 degrees form each other) One inlet port and one outlet port connection

Environmental / Durability

Pressure Cycling 0 to 400psi	1000 cycles at 85°C
Thermal Shock	500 cycles, 0°C to +85°C
Thermal Cycle	-40°C to +105°C
Humidity	SAE J1455
Salt Spray	SAE J1455 96 hours
Steam clean & pressure wash	SAE J1455
Dust	SAE J1455
Chemical Exposure	SAE J1455
Vibration	SAE J1455
Mechanical Shock / Drop	SAE J1455
EMC / ESD	EN12895

Notes:

- 1 Length of warning is dependant on tank size
- 2 All specifications measured with the load circuit presented.
- 3 Other connectors and wire harness lengths available. Please consult your Optek Technology Representative