Cambria CORPORATION

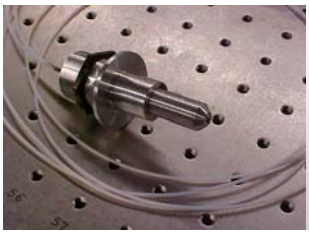
EOS 80
Interstitial Sensors

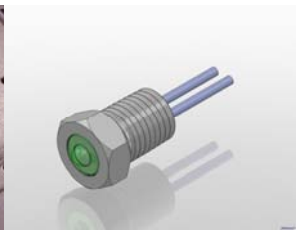
EOS 80 Series Sensors

The Cambria EOS 80 is a unique high performance optical sensor that will detect the presence of hydrocarbons and other liquids, using a patented evanescent wave technology. The sensor discrimination function refers to the ability to detect and identify water, alcohol, gasoline, diesel, engine oils, etc. With no moving parts, this rugged sensor line features a slim profile that allows the unit to be easily installed in a wide variety of tight environments. The highly flexible form factor has allowed designs for High pressure-High Temperature (450 F @3000 psi), very small shapes (0.25 inch diameter), and the sensor head can be made completely non-metallic. The sensing head and electronics are UL Class 1 Div 1 approved. The sensing head can be located remotely from the electronics via non-conducting fiber optic cable.

Applications

- **Secondary Containment**
- **Interwall environments**
- **Hydrocarbon Monitoring**
- **Fuel-Water Discrimination**
- **UL Class 1 Div 1 approved**





Benefits

- **Single channel discriminating sensor**
- **Field tested, 3rd party Approved.**
- **Low cost - High accuracy**
- **Easy to use and easy to install**
- **Narrow profile**
- **Fast reaction time (0.05 sec)**
- **Variety of form factors**

Preliminary Specifications

Type:	Discriminating, Single point, Fuel and Water detection
Technology:	Patented Evanescent IR Absorption
Operable sensor temp range:	-40°C to 60°C standard. High temp to 225 C
Cable temperature:	-40°C to 85°C
Power	9-30vdc. Current draw 14ma. Total power: 0.1 watt
Sensor output:	0.5 - 5 V (also RS232, relay, 4-20 ma)
Sensor diagnostics output:	0 - 3.6 V
Guaranteed service life time:	1 Million Cycles, 3 year warranty.
Repeatability:	1%
Hysteresis:	1%
Dimensions:	3.5” long, 0.625” diameter standard
Connector:	2 m cable pigtail, connectorized optional

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Response Time:	10 ms intrinsic: PNP or NPN output or custom
Weight	0.25 lb (depending on final configuration)
Case:	Delrin. NEMA-4/IP65
Approvals:	California Water Board, 3rd party test, UL C1 Div 1

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