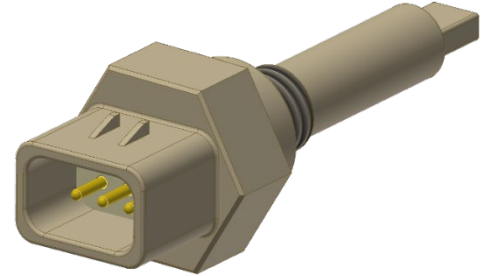


3100 Series Water in Fuel Sensor (WIF)

The Water in Fuel (WIF) sensor will detect the presence of water in diesel in the fuel filter housing assembly by measuring the capacitance levels of the liquids. It has a unique three wire design and because it is capacitive it has no moving parts. It is a completely sealed design with no exposed probes or leads for leak free operation. Compatible with biodiesels and upon start up the sensor has a self-test function.

Features:

- Made from fuel tolerant 25% GF Acetal Copolymer (POM-C).
- Sensing location is variable depending on probe length.
- External Viton O ring for trouble free application sealing.
- Integrated connector allows re-use during filter replacement.
- No exposed components negate corrosion issues.
- All components are on the PCBA inside the housing.
- Can be mounted vertically or horizontally in the application.
- Intended for use in separated fluids, not designed for emulsified mixtures of water and diesel.



SPECIFICATION

Electrical

Supply Voltage: 8 to 36 VDC
Connector: Integrated Ampseal 16 3 way. Gold plated terminal PINS.

Performance

Power Consumption: <15mA Typ

Output

Switch to Ground: Open circuit in fuel
 Switch to ground in water (dielectric 29.30 – 80.30)
Power on Time: <500ms

Construction

Thread Specification: ½" – 20UNF(SAE 5) as std. Please consult Rochester Engineering for other details.

Environmental Ratings

Operating Temp: -20°C to 125°C
Storage Temp: -40°C to 125°C
Application Pressure: 10 PSI max
Vibration: 15.3 Grms, BS EN 60068-2-64: 1993
Ingress rating: IP67 when connected with mating connector.
Drop: 1M to concrete surface

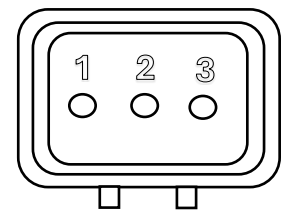
Options

Accessories: C/K18 Ampseal-16 3-way c/w terminals & wire seals

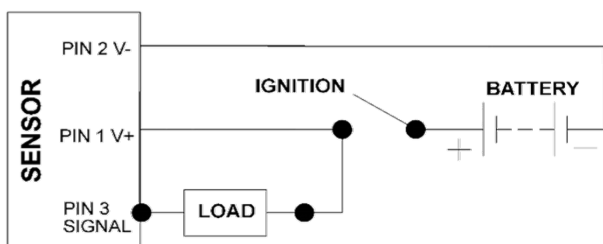
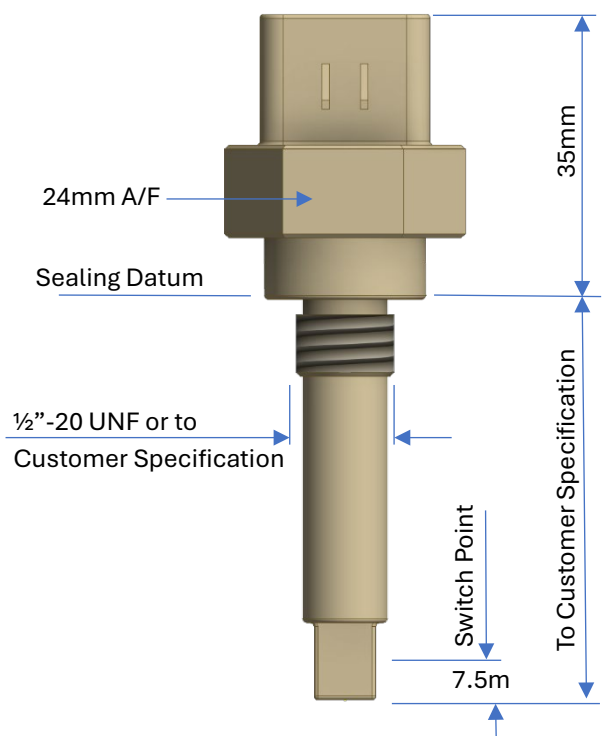
EMC: Type approval to EN ISO 13766:2006

Supplied with appropriate 'O'ring on request

Polarity		
Pin 1	Pin 2	Pin 3
8-36V	GND	Signal



Pin Configuration



SCHMATIC

