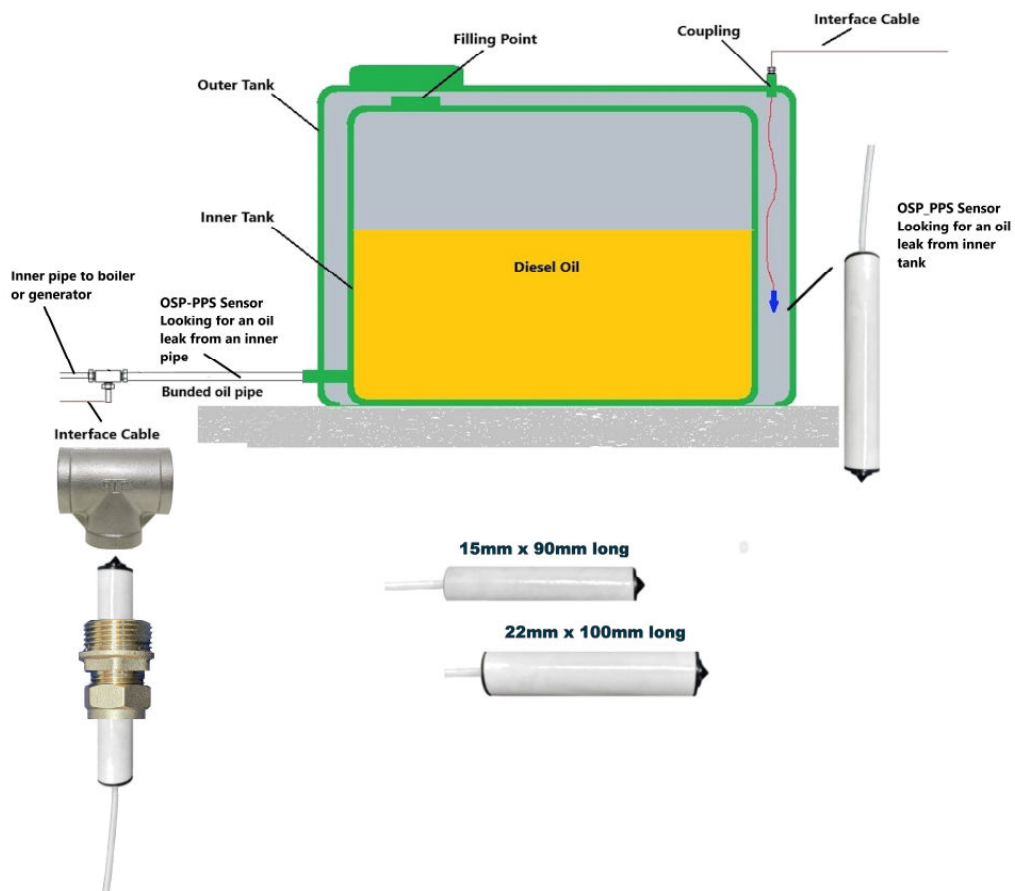




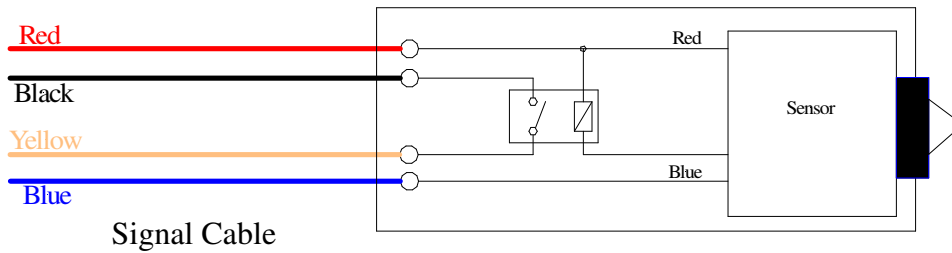
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# OSP-PPS

## Pipe in Pipe & Bunded Tank Leak Detection Sensor Installation and Operation Manual



## Sensor Wiring



### **Connections**

**Red Wire** = 12-24VAC Live or 12-24VDC +

**Black Wire** = Volt free Contact Common

**Yellow Wire** = Volt Free Contact Normally Open, Close in Alarm

**Blue Wire** = 12 - 24VAC Neutral or 12 - 24VDC Negative

The sensor will require a 12 to 24volt supply. Connect the white signal cable between the sensor and the main Alarm/BMS in the following manner:

Connection to Signal Cable	Signal Cable Wire Colour
+VDC/AC	Red
0VDC/AC	Blue
Contact N/O or N/C	Yellow
Contact N/O or N/C	Black

### Installation

The sensor can be dropped into the void between the inner and outer tanks, use a compression gland to seal the opening from the elements. For pipe in pipe installation, use a suitably sized tee and coupling with a 15 or 22mm compression fitting depending on the size of sensor used. The sensor should be fitted to the underside of the pipe so that any leaking oil can drain onto the sensor.

### Maintenance

The sensor should be tested at least once a year for correct operation. A check should also be made on a regular basis, at least every six months to ensure that the sensor is not contaminated with dirt, damaged or been moved away from its correct location. If the sensor is found to be contaminated with dirt, it should be cleaned using a brush, soapy water, then dried using clean tissue paper. A re-test can then be carried out.

## Compatible fluids

The following list may be used as a guide and highlights common industrial fluids that are typically acceptable.

Acetic acid – Glacial Acetic acid – 10% Ammonia – 88 Ammonium Hydroxide – 10% Ammonium Chloride – 10% Aviation spirit Benzene Benzoic acid Bleach Brine Butane Calcium Nitrate Calcium Hypochlorite Carbon Tetrachloride Chromic acid Copper Sulphate Creosote Cyclohexane Cyclohexanol Detergent solutions Diesel fuel Diethylamine Diethyl Ether Dioctyl Phthalate Edible fats & oils Ethanol – 50% Ethyl Alcohol Ethylene Glycol Ferric Chloride Formaldehyde Formic acid	Glycerol Heptane Hydrochloric acid – 10% Hydrochloric acid conc. Hydrogen Peroxide Isopropanol Iso-Octane Kerosene Linseed oil Magnesium Sulphate Methanol Motor oil Nitric acid 10% Oils - Vegetable Oxalic acid Petroleum Ether Potassium Hydroxide – 10% Potassium Hydroxide – 50% Silicone fluids Silver Nitrate Soap solution Sodium Chloride Sodium Hydroxide – 10% Sodium Hydroxide – 50% Sulphuric acid – 10% Transformer oil Turpentine Varnish Water White Spirit
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