



HS100ND – Dry Sensor Assembly

Product Description

The model HS100ND leak sensor utilizes conductive polymer technology to detect the presence of hydrocarbon-based liquids in normally dry secondary containment applications. The HS100ND has no moving parts, can detect liquid hydrocarbon anywhere along its flexible length, and is unaffected by the presence of water or hydrocarbon vapor. The sensor is constructed with a fuel-resistant flexible outer mesh that both protects the sensing element and permits installation in an “L” configuration to sense from the floor to the top of the containment area. The HS100ND is available in lengths from 1 to 45 feet, including a 25-foot two-conductor PVC-jacketed cable, and is compatible with TMS series and LC2000 consoles listed below.

Applications

- Dry Containment Sumps that may collect rainwater
- Dry Annular Space in Double-Wall Tanks
- Turbine Enclosures
- Power Transformer Coolant Rupture Basins

Specifications

- Technology: Conductive Polymer
- Sensitivity (Minimum): 0.05” (1.25 mm)
- Dimensions: 1” diameter x 2.5” + Sensing Length
- Sensing Length: 1’ (0.3 m) to 45’ (4.6 m) (LC2000/TMS2000/3000/4000)
1’ (0.3 m) to 6’ (0.6 m) (TMS1000/TMS2000W/TMS4000W/WiDAM)
- Response Time*: Volatiles: Typically 1 – 2 minutes
Non-Volatiles: Variable, 10 to 30 minutes at 70 °F (25 °C), 1 hour at 32 °F (0 °C)
- Operating Temperature: -20 °F to 150 °F (-30 °C to 65 °C)
- Mounting: Any orientation
- Wetted Materials: Diallyl Phthalate, Polyester, Epoxy
- Field Wiring: 22AWG, 2-Conductor
Belden 8442, Alpha 1172C or equiv.
Maximum length: 4000 feet (1219 m) (LC2000/TMS2000/3000/4000)
50 feet (15 m) (TMS1000/TMS2000W/TMS4000W/WiDAM)

Ordering Information

HS100ND – xx, where xx is sensor overall length, from 1 to 45 feet in one-foot increments (LC2000/TMS2000/3000/4000)

HS100NDL – xx, where xx is sensor overall length, from 1 to 6 feet in one-foot increments (TMS1000/TMS2000W/TMS4000W/WiDAM)

* Response time will be slower at colder temperatures. Consult factory.