**MODEL LZ**

**Leakage Oil Sensor**

**Features**
- Strong for buildup
- Strongly built sensor
- Excellent maintainability
- Easy to replace from existing sensor

**General Description**

Model LZ is designed to detect the leakage oil in sump pit, pit in oil retaining wall, pump yard, and etc. Since Model LZ contains no moving parts, it is very reliable and durable. The construction is very simple, so it is easy to maintain. The principle of operation is to detect the impedance between Electrode and earth, so Model LZ is not affected by the conductive build up.

**Operational Description**

Model LZ detects impedance between electrode and earth ground. When the electrode is in water, impedance is low. But when the electrode is covered by oil, impedance is increased and output signal.

**Application**
- Oil leak detection for oil refinery, petrochemical, cogeneration, and power plant
- Oil leak detection for storage tank of crude oil and refined oil in oil refinery plant

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Hydraulic Power Plant

- Oil detection in leakage water
- In rare case, oil is leaked from inlet valve.
- So, lead detector shall be installed for safety.
## Specifications

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### LZ10 Specifications

- **Sensitivity**: 7mm ± 3mm (Thickness of oil slick)
- **Operating Temperature**: -20 to 50°C
- **Maximum Pressure**: Atmospheric
- **Material**:  
  - Body: Formed polystyrene with urethane coating
  - Electrode: 304SS
  - Cable: PVC, dia 6.5 x 6m (VCTF 2 x 0.5mm²)
- **Protection**: IP67

### LZ1100 Specifications

- **Supplied Power**: 100 to 120/200 to 240V AC ±10%
- **Power Consumption**: Approx. 3VA (at 100V AC)
- **Output Signal**: No-voltage relay (SPDT), 250V 3A AC, 30V 3A DC (Resistive)
- **Operating Temperature**: -20 to 60°C
- **Maximum Humidity**: 85 %RH
- **Material**:  
  - Body: ABS
- **Separation Distance**: 2000m Max.
- **Protection**: IP20
- **Mounting**: 11-pin socket** (11PFA equivalent)

** 11-pin socket can be mounted on DIN rail.