

Automotive Diesel Fuel Water-in-Fuel (WIF) Separator Sensor

Conductive / Capacitive Water Level Detection Probe for Diesel Fuel Filters

Product Overview

Misensor Water-in-Fuel (WIF) sensors install into the bottom collection bowl of diesel fuel filters and water separators. By measuring the conductivity/dielectric difference between diesel fuel and accumulated water, the sensor outputs an active high/low logic voltage to alert the ECU before water enters the high-pressure common-rail injection system.

Key Features

- Prevents costly common-rail injector corrosion and...
- Solid-state electronic sensing with integrated ASI...
- Compatible with 12V and 24V commercial vehicle ele...
- Resistant to diesel, biodiesel, fuel additives, an...
- Available with integrated water drain valve and NT...

Typical Applications

- Heavy-duty commercial trucks, buses & diesel picku...
- Agricultural tractors, excavators & construction m...
- Marine diesel engines & stationary diesel generato...

Technical Specifications & Model Selection

Parameter	12V System Specification	24V System Specification
Rated Voltage	12V DC (Operating: 9-16V DC)	24V DC (Operating: 18-32V DC)
Current Consumption	<= 25 mA	<= 25 mA
Output in Diesel (No Water)	<= 1.3V DC (Low State)	<= 2.2V DC (Low State)
Output in Water (Alarm)	>= 10.0V DC (High State)	>= 18.0V DC (High State)
Trigger Water Level	21.5 ± 2.0 mm (Customizable)	21.5 ± 2.0 mm (Customizable)
Insulation Resistance	>= 20 MOhm @ 500V DC	>= 20 MOhm @ 500V DC
Operating Temperature	-40°C to +110°C	-40°C to +110°C
Ingress Protection	IP67 (per IEC 60529)	IP67 (per IEC 60529)