

Euro III Oil Pressure Sensor Instruction

Overview

Y(LW)D type is a Euro III oil pressure sensor series, currently widely used for monitoring engine oil pressure. The relationship between oil pressure value and output voltage value is shown in the figure below.

(Refer to original document for the pressure-voltage relationship chart.)

Technical Parameters

Parameter	Value
Temperature compensation range	-40~+125°C
Storage temperature	-40~+125°C
Accuracy	Less than $\pm 1.5\%$ VFSS
Operating current	Less than DC 4mA
Pressure range	P = 0~1 MPa
Operating voltage	Vin = DC 5 \pm 0.5V
Output voltage	V0 = (0.1+0.8P) \times Vin (When Vin is 5V, P is 0~1MPa, V0 = 0.5~4.5V)

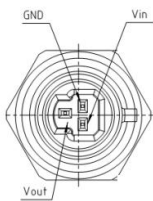
Limit Parameters

Parameter	Value
Maximum pressure Pmax	3 MPa
Maximum voltage Vmax	DC 40V

Maintenance and Usage Precautions

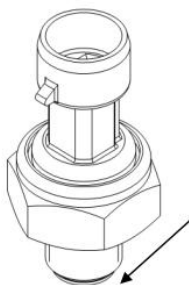
1. Check whether the cable is damaged and handle it in a timely manner. The cable should be bundled and fastened along the routing path to avoid cable shaking and abrasion against the engine body. When routing the cable, avoid placing the cable near high-temperature components (such as turbochargers, exhaust pipes, etc.).
2. Check the connector to avoid long-term stress on the connector that may affect the good contact of the sensor.

Wiring Method



Terminal Pair	Function
Vin - GND	Operating voltage Vin
Vout - GND	Output voltage Vo

Thread Specifications



Available thread specifications: - NPT 1/8", NPT 1/4", NPT 3/8" - M10 \times 1, M12 \times 1.25, M14 \times 1.5, M16 \times 1.5, M18 \times 1.5, M22 \times 1.5

Other thread specifications can be customized.