Providing Custom Sensor Solutions

The NewTek P Series AC LVDTs are specially designed for Extreme High-Pressure applications demanding the highest levels of reliability while performing in the rugged environments required for deep sub-sea applications. These transducers are constructed of special High-Pressure materials, allowing operation at pressure up to 20,000 psi. The P Series High-Pressure and Seawater Resistant LVDT Position Sensors offer extraordinary performance, regardless of offsets due to pressure and/or temperature. These P Series are available ± 0.900 inch (± 22.86 mm) and offer high sensitivity, high resolution and excellent linearity.

Features

- 20,000 PSI operating pressure
- 400° F operating temperature
- 0.52 inch diameter stainless steel housing
- Ratiometric output for reduced thermal sensitivity
- Standard and custom models available

Applications

- Deep Subsea Applications
- Hydraulic actuators
- Extreme high pressure applications
- Pressure test vessels

Mechanical and Electrical Specifications

Nominal Range (Inches) ± 0.90 Nominal Range (mm) ± 22.86

Sensitivity (mV/V/.001 Inch) 0.468 (Ratiometric) Sensitivity (mV/V/mm) 10.4 (Ratiometric)

Primary Impedance (Ω) 200

Input Voltage 3 Vrms (Nominal)
Input Frequency 400Hz to 10KHz

Body Weight (grams) 105 Core Weight (grams) 42



Environmental Specifications

Operating Temperature: -65°F to 400° F (-55°C to 204°C)

Thermal Coefficient: <-0.01%/°F (<-0.02%/°C) of Full Range

Humidity: 90% R.H., 240 Hours

Shock Survival: 1000 g, 11 ms Vibration: 20 g to 2 KHz

Materials Specifications

Housing: Corrosion-resistant nickel-iron alloy
Core: Hi-permeability nickel-iron alloy

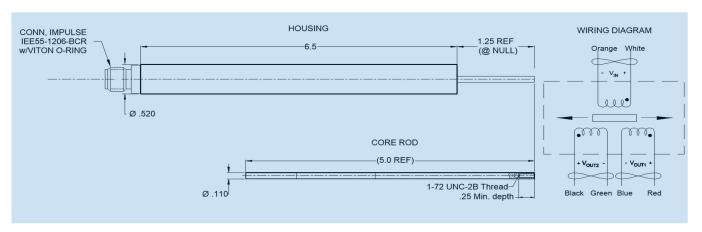
Coil Form: Ceramic/Plastic

Magnet Wire: Film insulated copper

Connector IMPULSE IEE55-1206-BCR w/VITON O-RING

Providing Custom Sensor Solutions

Dimensions and Wiring



Ordering Info

Notes

- Electrical specifications measured at 3KHz excitation frequency.
- Additional options and displacements available. Please consult factory for custom designs.
- Specifications subject to change.

Warranty

NewTek products are warrantied against defective materials and workmanship for a period of one year from the date of delivery to the original purchaser. NewTek accepts no liability for damages in the misuse of our products.



NewTek Sensor Solutions, LLC 7300 US Route 130 North, Bld # 7 Pennsauken, NJ 08110-1541 USA Tel: (856) 406-6877 Fax: (856) 406-6578 www.newteksensors.com