The NewTek Hi Series sensors are rugged hermetically sealed 0-10 VDC output LVDTs with excellent linearity, high resolution, and superior repeatability. These sensors are constructed of ¾ inch diameter stainless steel and manufactured for general industrial use. Electrical connection is made through an axial mounted connector. Designed for a wide range of position measurement applications, they are available in ranges of 0.1 inches (2.54mm) to 20 inches (500mm). In addition to being sealed to IP-68, the HE Series windings are potted inside the housing with a 2 component epoxy, providing excellent protection against hostile environments.

**Features**
- Welded 3/4 inch hermetically sealed steel housing
- Axial mounted connector
- Measurement ranges from 0.1 inches to 20 inches
- Linearity ±0.25% of Full Range Max (±0.1% optional)
- Wide operating temperature range (-65°F to 275°F)
- Standard and custom models available
- "Plug & Play," 0-10 VDC compatible with most PLCs and Controllers

**Applications**
- Factory automation
- Materials testing
- Packaging equipment
- Valve position sensing
- Corrosive environments
- Customs Available

**Electrical Specifications**
- Input Power: 11-30 VDC (24 VDC nom.)
- Full Scale Output: 0 - 10 VDC
- Linearity: ± 0.25% Full Range Max (±0.1% Optional)
- Hysteresis: <0.01% of Full Range Typical
- Repeatability: <0.01% of Full Range Typical

**Environmental Specifications**
- Operating Temperature: -65°F to 275°F (-55°C to 135°C)
- Thermal Coefficient: < -0.01%/°F (< -0.02%/°C) of Full Range
- Humidity: 90% R.H., 240 Hours
- Shock Survival: 100 g, 11 ms
- Vibration: 20 g to 2 KHz

**Materials Specifications**
- Housing: Corrosion-resistant nickel-iron alloy
- Core: Hi-permeability nickel-iron alloy
- Magnet Wire: Film insulated copper
- Connector: PT02A-10-6P
Specifications

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Nominal Range (inches)</td>
<td>0.10</td>
<td>0.250</td>
<td>0.500</td>
<td>1.00</td>
<td>2.00</td>
<td>4.00</td>
<td>6.00</td>
<td>8.00</td>
<td>10.00</td>
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<tr>
<td>Nominal Range (mm)</td>
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<td>19.45</td>
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<td>3.45</td>
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<td>Core Weight (ounces)</td>
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<td>0.91</td>
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Dimensions and Wiring

Ordering Info

HE - 750 - XXX - X
Measuring Range Options
M - Calibration in millimeters & Metric M3 Thread in Core

Notes
- Electrical specifications measured at 24 VDC supply voltage.
- Additional customization options 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.