The NewTek HIR Series sensors are rugged hermetically sealed 4-20 mA 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 a radially mounted connector, resulting in a reduced housing length. 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 HIR Series windings are potted inside the housing with a 2 component epoxy, providing excellent protection against hostile environments.

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### **Features**

anetech srl

• Welded 3/4 inch hermetically sealed steel housing

Via Italo Calvino 7

20017 Rho (MI)

Lotto 1 - Edificio A13-14

- Radially 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," 4-20 mA compatible with most PLCs and Controllers

## **Electrical Specifications**

Input Power: 9-30 VDC (24 VDC nom.) Full Scale Output: 4 - 20 mA Linearity: < ± 0.15% Full Range Typical 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

**Applications** 

• Factory automation

• Packaging equipment

Valve position sensing

**Corrosive environments** 

Materials testing

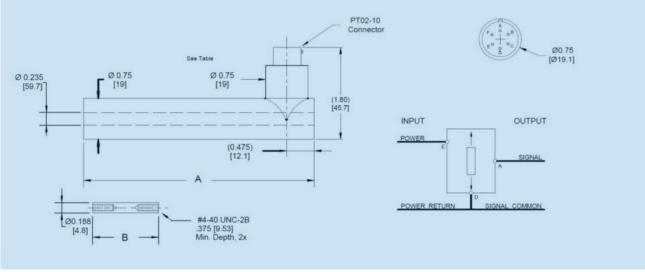




# **Specifications**

Model	NT-HER-750-										
Parameter	100	250	500	1000	2000	4000	6000	8000	10000	15000	20000
Nominal Range (inches)	0.10	0.250	0.500	1.00	2.00	4.00	6.00	8.00	10.00	15.00	20.00
Nominal Range (mm)	2.54	6.00	12.60	25.4	50.0	100.0	150.0	200.0	250.0	380.0	500.0
Scale Factor (mA/inch)	100.0	40.0	20.0	10.0	5.0	2.5	1.7	1.3	1.0	0.7	0.5
Scale Factor (mA/mm)	3.94	1.57	0.79	0.39	0.20	0.10	0.07	0.05	0.04	0.03	0.02
Dimension " A" (inches)	2.86	3.48	4.25	6.7	8.2	11.7	14.5	16.95	19.45	25.01	32.38
Dimension " B" (inches)	0.80	1.25	1.65	3.45	3.45	5.30	6.20	6.20	6.20	7.00	9.50
Body Weight ( ounces)	1.90	2.50	3.00	4.20	5.00	8.20	10.60	11.50	12.10	16.30	20.50
Core Weight (ounces)	0.10	0.12	0.18	0.41	0.41	0.66	0.80	0.80	0.80	0.91	1.20

## **Dimensions and Wiring**



# **Ordering Info**



#### 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.



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