

• Rugged 3/8 inch stainless steel housing

Features

- Measurement ranges from \pm 0.025 to \pm 2 inches
- Linearity ±0.15% of Full Range Typical
- Shock and vibration tolerant •
- Operating temperature range: -65°F to 275°F (Standard) ٠ or extended temperature range: -65°F to 400°F (optional)
- Choice of imperial or metric threaded core
- Standard and custom models available

Electrical Specifications

3 Vrms (Nor
400Hz to 10
< ± 0.15% Fi
1.5 X Linear
0.5% Full Ra
<0.01% of F
<0.01% of F

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Environmental Specifications

Standard: -65°F to 275° F (-55°C to 135°C) **Operating Temp.;** Operating Temp.; 400° Option: -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 Lead Wires: # 32 AWG Teflon insulated, 12" long

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



Miniature AC LVDT

NT-M-375 Series

- Factory automation
- Medical equipment
- Valve position monitoring
- Materials testing
- Dimensional gaging





inch (\pm 0.63 mm) to \pm 2.0 inch (\pm 50 mm) and offer high sensitivity, high resolution and excellent linearity.

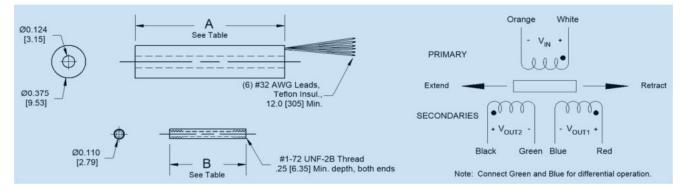
The NewTek M Series AC LVDTs are specially designed for applications demanding the highest levels of reliability while performing in the rugged environments that are required for industrial equipment. These transducers consist of a coil assembly potted into a 3/8" diameter housing with a separate moveable core. The M Series are available from \pm 0.025



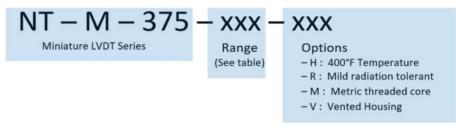
Specifications

Model	NT-M-375-						
Parameter	025	050	100	250	500	1000	2000
Nominal Range (Inches)	± 0.025	± 0.050	± 0.100	± 0.250	± 0.500	± 1.00	± 2.00
Nominal Range (mm)	± 0.63	± 1.25	± 2.50	± 6.25	± 12.5	± 25.4	± 50.8
Sensitivity (mV/V/.001 Inch)	3.5	1.7	1.8	2.5	1.7	0.75	0.50
Sensitivity (mV/V/mm)	138	67	71	98	67	30	19.7
Primary Impedance (Ω)	95	345	345	505	130	240	540
Dimension " A" (inches)	0.45	0.75	1.00	1.75	3.30	5.50	9.95
Dimension " B" (inches)	0.40	0.60	0.65	1.15	2.00	3.00	5.50
Body Weight (grams)	3.0	6.0	6.0	11.5	18.0	28.0	56
Core Weight (grams)	0.3	0.5	0.5	1.0	1.6	2.6	5.2

Dimensions and Wiring



Ordering Info



Notes

- Electrical specifications measured at 3KHz excitation frequency.
- Additional options are 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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