



Gage Head Rt. Angle ±10VDC Output LVDT

Providing Custom Sensor Solutions

The NewTek GDR Series Gage Head LVDTs are designed to work with DC voltage, and have excellent linearity, high sensitivity and high resolution. They permit highly accurate readout and recording of an output signal directly without auxiliary signal conditioning electronics. Electrical connection is made through a radially mounted connector, resulting in a reduced housing length. These spring-loaded LVDTs are designed for a wide range of position measurement and dimensional gaging applications and available in ranges of 0.10 inch (2.5mm) to 4 inches (100mm).

Features

- Spring loaded probe
- Radially mounted connector
- Welded hermetically sealed steel housing
- Measurement ranges from \pm 0.05 to \pm 2 inches
- Linearity ±0.15% of Full Range Typical
- Shock and vibration tolerant
- Choice of probe contact tips
- Standard and custom models available

Electrical Specifications

Input Power: ± 15VDC, ± 25mA Full Scale Output: 0 to ± 10VDC

Linearity: <± 0.15% Full Range Typical
Hysteresis: <0.01% of Full Range Typical
Repeatability: <0.01% of Full Range Typical

Applications

- Pinch and roller alignment
- Dimensional gaging
- Factory automation
- Materials testing
- Packaging equipment
- TIR measurements



Environmental Specifications

Operating Temperature: 0°F to 185° F (-20°C to 85°C)

Thermal Coefficient: < -0.014%/°F (< -0.025%/°C) of Full Range

Humidity: 90% R.H., 240 of FSO Typical

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

Magnet Wire: Film insulated copper

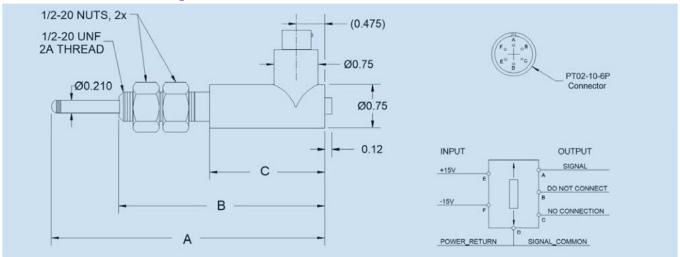
Connector: PT02A-10-6P
Probe: AGD #9 contact tip

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Specifications

Model	NT-GDR-750-	NT-GDR-750-	NT-GDR-750-	NT-GDR-750-	NT-GDR-750-	NT-GDR-750-
Parameter	50	125	250	500	1000	2000
Nominal Range (inches)	±0.05	±0.125	±0.25	±0.5	±1.0	±2.0
Nominal Range (mm)	±1.25	±3	±6.3	±12.5	±25	±50
Scale Factor (V/inch)	200	80	40	20	10	5
Scale Factor V/mm)	8	3.3	1.6	0.8	0.4	0.2
Dimension " A" (inches)	5.45	6.05	6.80	11.33	13.80	21.70
Dimension " B" (inches)	4.35	5.00	5.70	9.88	11.42	17.18
Dimension " C" (inches)	2.80	3.40	4.20	6.70	5.20	11.70
Body Weight (ounces)	3.0	3.5	4.5	6.5	8.2	10.6
Body Weight (grams)	85	99	128	184	233	300

Dimensions and Wiring



Ordering Info

Notes:

- Electrical specifications measured at 3KHz excitation frequency.
- Additional options and alternate contact tips 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.

