

GAGE HEAD Rt. ANGLE 4-20 mA Output LVDT NT-GIR-750 Series

Providing Custom Sensor Solutions

The NewTek GIR Series Gage Head LVDTs are designed to work with loop-powered 4-20 mA circuits, 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 GIR Series 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 3/4 inch hermetically sealed steel housing
- Measurement ranges from 0.10 to 4 inches
- Linearity ±0.15% of Full Range Typical
- Available in Air Extend Option
- Choice of probe contact tips
- Standard and custom models available
- Cable runs can be hundreds of feet **Electrical Specifications**

Input Power: 11-28 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

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 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

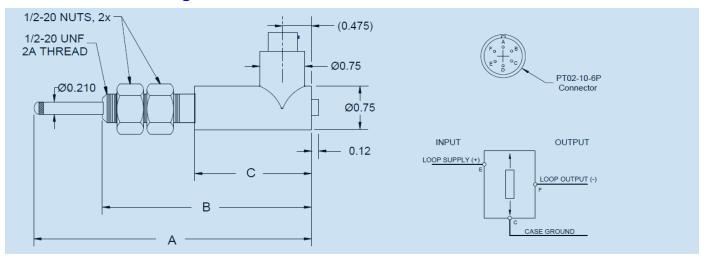
Connector: PT02A-10-6P
Probe: AGD #9 contact tip

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 **Providing Custom Sensor Solutions**

Specifications

Model	NT-GIR-750-	NT-GIR-750-	NT-GIR-750-	NT-GIR-750-	NT-GIR-750-	NT-GIR-750-
Parameter	100	250	500	1000	2000	4000
Nominal Range (inches)	0.10	0.25	0.50	1.0	2.0	4.0
Nominal Range (mm)	2.5	6.3	12.5	25.0	50.0	100.0
Scale Factor (mA/inch)	160	64	32	16	8.0	4.0
Scale Factor (mA/mm)	6.3	2.6	1.3	0.6	0.3	0.2
Dimension " A" (inches)	5.45	6.05	6.85	11.35	13.80	21.75
Dimension " B" (inches)	4.35	5.00	5.70	9.85	11.35	17.19
Dimension " C" (inches)	2.80	3.45	4.15	6.75	8.15	11.71
Body Weight (ounces)	3.0	3.5	4.1	6.5	6.9	10.5
Body Weight (grams)	83	101	171	182	298	296

Dimensions and Wiring



Ordering Info

GIR - 750 - XXX - X

Measuring Range Options

A - Pneumatic Extend, Spring Retract (20-40 psig req.)M - Calibration in millimeters

Notes:

- Electrical specifications measured 24 VDC power supply.
- Additional options and alternate contact tips are available. Please consult factory for custom designs.
- Specifications subject to change.

Warranty

NewTek products are warranted 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.

