

Providing Custom Sensor Solutions

The UNIVO GD 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. These GD 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
- 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

# **Applications**

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

## **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



### **Environmental Specifications**

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

**Thermal Coefficient:** < -0.014%/oF (< -0.025%/oC) 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



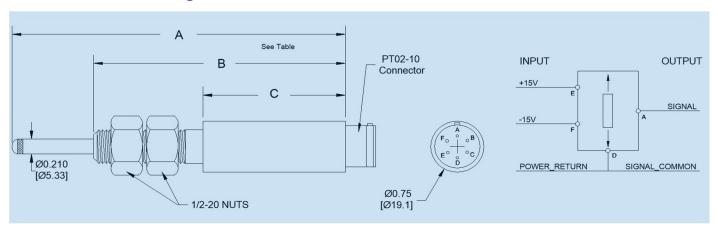


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# **Specifications**

Model	UGD-750	UGD-750	UGD-750	UGD-750	UGD-750	UGD-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

UNIVO products are warranted against defective materials and workmanship for a period of one year from the date of delivery to the original purchaser. UNIVO accepts no liability for damages in the misuse of our products.

