Features

- Spring loaded probe
- Air-extend option available
- Stroke lengths from ± 0.05 to ± 2 inches
- Non-Linearity better than ± 0.25% of FS
- Stainless steel housing sealed to IP68

Applications

- Laboratory R&D Materials Testing
- Industrial Gauging Test Stands
- Factory Automation

Overview



The HGSI GH-750-A series AC Spring Loaded Linear Variable Differential Transformer (LVDT) Position Sensors are used to monitor and track the linear motion or position of a target. These spring-loaded ruggedized sensors are ideal for use in industrial and laboratory applications including automotive R&D, motorsports, industrial, motion control, medical, military and aerospace.

The sensor shaft is spring loaded and guided by a pair of precision sleeve bearings. These hermetically sealed sensors are constructed entirely of stainless steel and are resistant to dust, water, temperature, shock, and vibration. For the air-extend option, the shaft is extended by introduction of a low pressure (10-30 psi), clean, dry air supply, with a regulated flow, through a 1/4 barbed fitting on the end of the unit. With the release of pressure, an internal spring returns the probe to its fully retracted position.

The GH-750-A series will operate with most any conventional differential input AC LVDT signal conditioner, but operation with ratiometric signal conditioning is not recommended. HGSI offers a full line of compatible AC LVDT signal conditioners. Please contact us for a recommendation.

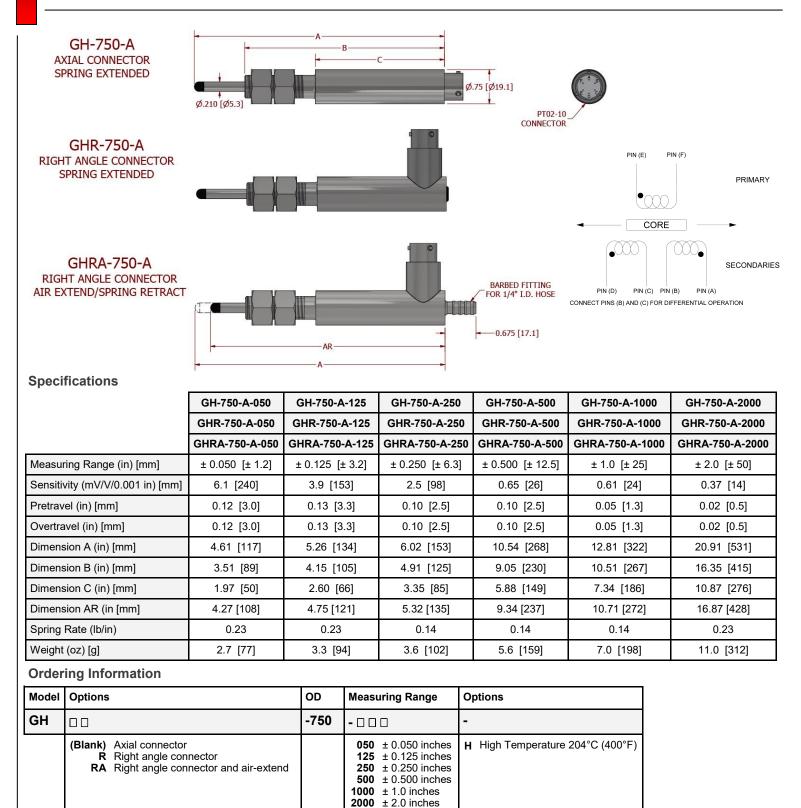
Specifications

Input Voltage:	3 Vrms (nominal)
Input Frequency:	400 Hz to 10 kHz
Linearity Error:	\leq ± 0.15% of FSO typical, ± 0.25% maximum
Null Voltage:	0.5% of FS
Repeatability:	0.01% of FS
Hysteresis:	0.01% of FS
Bandwidth:	3 Hz (mechanical)
Operating Temperature:	Standard Version: -54 to +135°C (-65 to +275°F) High Temperature Version: -54 to +204°C (-65 to +400°F)
Thermal Coefficient:	< -0.02%/°C of FS (< -0.01%/°F of FS)
Humidity:	90% RH
Housing:	Stainless steel
Contact Tip:	AGD #9 hardened tool steel, chrome plated, #4-48 thread, interchangeable
Mating Connector:	Amphenol PT06A-10-6S(SR) or equivalent
Life Expectancy:	> 100 million cycles
Shock Rating:	1000g, 11 mS
Vibration Rating:	20 g to 2 kHz
IP Rating:	IEC IP68





GH-750-A Series AC Spring Loaded LVDT Linear Position Sensor



Ordering Example

GHR-750-A-500: AC LVDT, Right angle connector, ± 0.500 inch Measuring Range



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