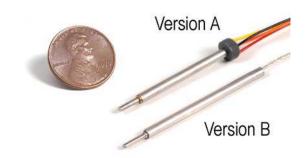
# Miniature Gage Head **GH-SM Series**



This micro-miniature spring-loaded LVDT is designed for high resolution position measurement in tight places. It is layer wound on metal coilform provides excellent stability, while ferromagnetic housing takes care of the electromagnetic and electrostatic shielding

Several options are available for signal conditioning: digital or analog EL-35 signal conditioners and USB-10 or USB-10-4 digital controllers, manufactured by Singer Instruments & Control.



#### **Specifications**

Input voltage..... 2.3Vrms max Input frequency . . . . . . 5kHz (nominal) Linearity deviation error 2.0% F. R. max

Operating temperature

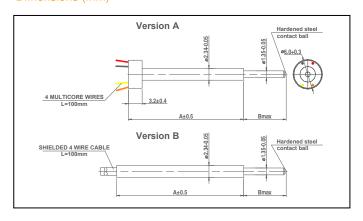
-20°C to +70°C

range..... Housing material . . . . . . Nickel-Iron Alloy.

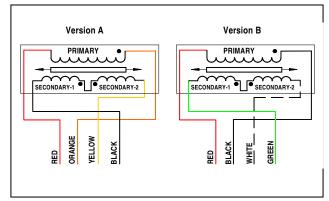
## **Applications:**

- robotic systems micro motion measurement;
- civil engineering movements and deflections;
- optical components linear/angular positioning;
- medical use micro motion, deformation.

#### Dimensions (mm)



#### Wiring



How to order

Ordering example: Model number - GHSM-2.5A

MODEL	Linear Measuring Range	Total mechanical stroke, Bmax mm	Spring Force * gr.	Sensitivity (tested at 5kHz) V/mm/Vex	Impedance (tested at 5kHz) Ω		Resistance Ω		Length mm
	mm								
					Prim.	Sec.	Prim.	Sec.	Α
GHSM-1.0A	±1.0	2.7	30-70	0.07	190	50	115	45	20.4
GHSM-1.0B	±1.0								28.4
GHSM-2.5A	+25	5.7	30-95	0.044	310	70	170	65	30.0
GHSM-2.5B									38.0
GHSM-5.0A	±5.0	10.7	25-90	0.044	170	70	90	60	51.6
GHSM-5.0B									59.6

\*Max. deviation ±20%

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