GCA-AC Series LVDT

The GCA-AC Series features an integrated mounting nut for tool-free installation. Fully sealed metal housing and double shielding ensure reliable performance in harsh environments. Available in six strokes from ±1.27 mm to ±50.8 mm with <0.25% linearity, <0.1% repeatability, and -55°C to 155°C operation. PT02-10-6P connector included. Ideal for dimensional gaging, spool position control, and displacement monitoring - a direct drop-in replacement for imported models.



FEATURES

- Spring-loaded design
- Integrated mounting nut, easy installation
- Fully sealed metal housing, shock & vibration resistant
- Double-shielded against EMI and ESD
- Reliable in high-temperature, humidity & dust
- Wide frequency excitation, high sensitivity & reliability
- Drop-in replacement for imported models

GREAT FOR

- Dimensional gaging
- spool displacement control
- position monitoring

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-GCA-050-AC	±1.27	230.0
HD-GCA-125-AC	±3.17	165.0
HD-GCA-250-AC	±6.35	91.0
HD-GCA-500-AC	±12.7	25.6
HD-GCA1000-AC	±25.4	14.2
HD-GCA-2000-AC	±50.8	8.3

All values are nominal unless otherwise noted. Dimensions are in mm unless otherwise noted

FR: Full Range is the stroke range, end to end; FR= S for 0 to S stroke range

FRO (Full Range Output): Algebraic difference in outputs measured at the ends of the range

Electrical

Input	3 V rms(1~7V rms Optional)
Input frequency	2.5KHz (400~10KHz Optional)
Zero point voltage	< 20mV
Non-linearity	<0.25%
Repeatability	< 0.1%
Operating Temperature	Common type: -50℃~ +155℃
TC of sensitivity	< 0.015%FS/℃
Structure	Split Structure
Wiring	PT02-10-6P
Shock survival	1000g,11ms
Vibration tolerance	20g@2000Hz

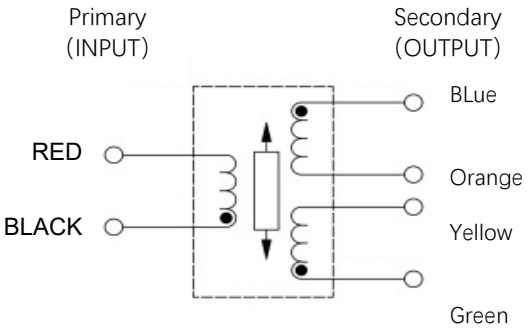
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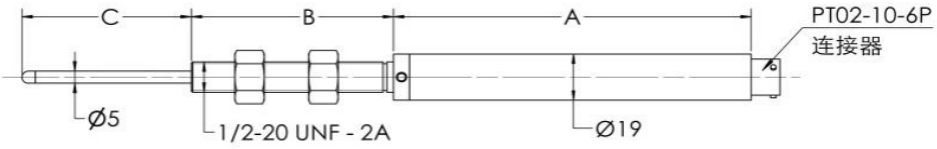
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	Dim "A"	Dim "B"	Dim "C"
HD-GCA-050-AC	48.3	35	27
HD-GCA-125-AC	69.9	35	27
HD-GCA-250-AC	91.7	35	27
HD-GCA-500-AC	134.4	76	63
HD-GCA1000-AC	191.8	76	63
HD-GCA-2000-AC	276.6	139	116

Wiring





ORDERING INFORMATION

HD - GCA - 050 - AC

Product Series	
GCA	GCA Series

Output	
AC	AC output

Stroke Range	
Code	Stroke
050	±1.27
125	±3.17
250	±6.35
500	±12.7
1000	±25.4
2000	±50.8
Customizable Range	

Optional accessories
1. Installation bracket
2. Iron core connecting rod (customizable)

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