A-308

Signal Conditioner / Demodulator for LVDT sensors

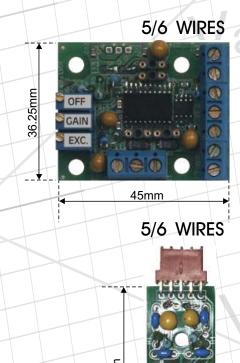
The A-308 is a high accuracy, low cost signal conditioner board, for use with most commercial LVDT sensors for accurate distance/position measurement. Its small size and high accuracy makes it and ideal solution for various applications.

FEATURES

- Small size
- No adjustment required
- High linearity: 0.05%
- Low drift: <50ppm /C of F.S.</p>
- High frequency response: up to 20 KHz
- Operates with remote sensor: up to 100m
- DC output proportional to position
- Single or dual supply voltage
- Built-in controls of frequency, filter offset, gain, excitation

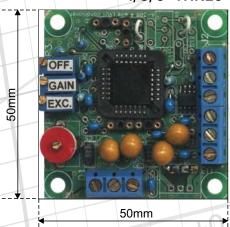
APPLICATIONS

- Linear displacement measurement
- Dynamic position measurement
- Vibrations



4/5/6 WIRES

18mm



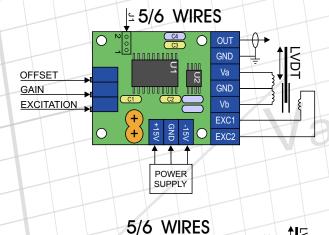


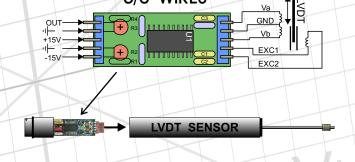
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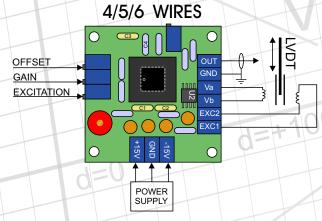
Technical Specifications

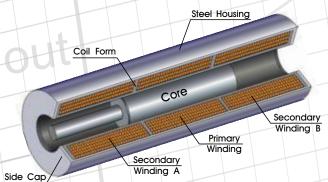
DEMODULATOR	
Bandwidth	up to 20KHz.
Linearity	better than 0.05% of FS
Gain drift	50ppm /°C of FS max.
Offset drift	50ppm /°C of FS max.
Output	Unipolar or Bipolar
LVDT sensor type	Any sensor with 1 Excitation coil and 2 output coils
Supply voltage	±15V
Output voltage	±11V
GENERAL	
Primary to secondary phase shift	Insensitive
Transducer null voltage	Insensitive
Transducer cable length	up to 30m.
Output cable length	up to 100m.
EXCITATION	
Excitation range	3-20 V RMS
Excitation T.C.	600 ppm /°C max.
Excitation voltage reject.	100 ppm / dB
Output current	30 mA RMA
Frequency range	60 mA
Excitation frequency T.C.	20-20000 Hz (with component change)
THD	-50 dB
POWER SUPPLY	
Voltage range	±7V / to ±18V
Current (@ no load)	18 mA
Temperature range	0-70 °C

Connection Diagram









Ordering Information: A-308-W-5-3000

Size: W=wide board with frequency screw terminal

T = Tiny board with soldering pins



Excitation Frequency



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