

# LVDT Voltage Module

## The LVM-110 Module

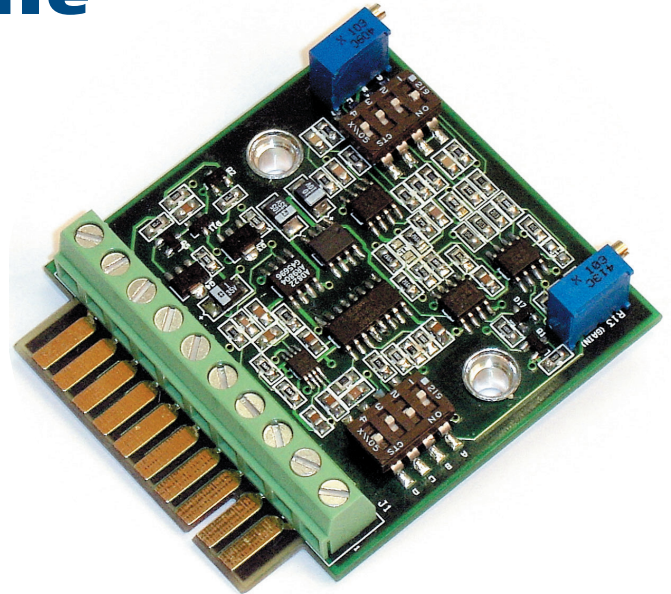
The popular LVM-110, low cost LVDT / RVDT signal conditioner has been re-engineered to improve performance and versatility.

The new LVM has increased LVDT drive current capability, to expand compatibility to LVDTs with lower input impedances.

The LVM-110 is designed to be a low-cost LVDT signal conditioning solution for OEM applications, and is compatible with most standard and special design Schaevitz® LVDTs.

New DIP switches replace the old, easy to lose DIP jumpers, simplifying gain and frequency setup procedure.

The new discrete circuit topology is optimized for improved signal to noise ratio and tempco, while maintaining form, fit and function backward compatibility with previous versions.



### FEATURES

- ◆ Small OEM Form Factor
- ◆ Low Cost
- ◆ Six DIP Switch Selectable Gains
- ◆ 20-Turn Zero and Span Pots
- ◆ 100% Zero Suppression
- ◆ Card-Edge or Screw Termination
- ◆ Master / Slave Capability

### APPLICATIONS

- ◆ Position Feedback System
- ◆ Test & Measurement
- ◆ High Density Dimensional Gaging

### specifications

#### Power Supply Requirements:

##### Voltage

$\pm 15$  Vdc.  $\pm 10\%$  (for  $\pm 10$  Vdc output)

$\pm 12$  to  $\pm 15$  Vdc.  $\pm 10\%$  (for  $\pm 5$  Vdc. Output)

##### Current

30mA. (max)

#### Transducer Excitation:

##### Voltage

3.0 V-rms.  $\pm 10\%$

##### Current

$\leq 20$  mA

(min LVDT Input impedance 150  $\Omega$ )

##### Frequency

2.5, 5, 8 & 10 kHz

#### Position Signal:

$\pm 10$ ,  $\pm 5$ , 0 to 10 and 0 to 5 Vdc

(5 mA max current)

#### Required Signal for $\pm 10$ Vdc Output

##### Minimum

100 mV rms.

##### Maximum

5.6 V rms.

##### Frequency Response

250 Hz (-3db)

##### Linearity

$\leq .05\%$

##### Tempco

$< .02\%/^{\circ}$  F

##### Zero Suppression

$\pm 6$  Vdc

##### Output Impedance

$< 1\Omega$

##### Noise and Ripple

$\leq 15$  mV rms

##### Stability

.05% of FSO

(after 15 min. warm-up)

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## wiring diagram

