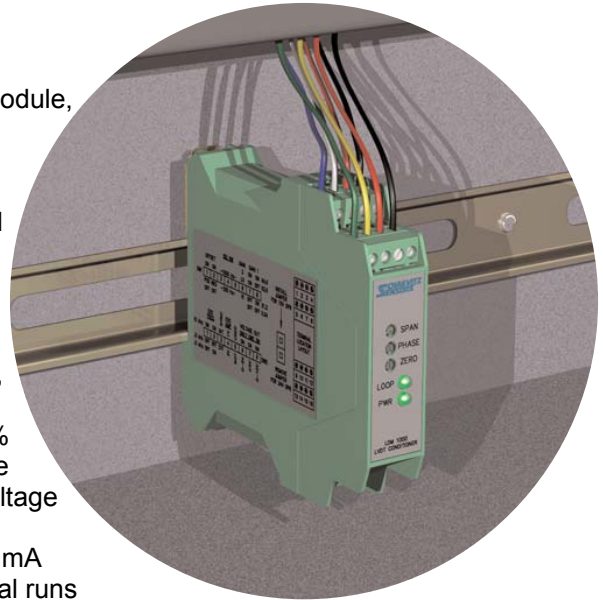




LDM-1000

LDM-1000 introduces the new LDM -1000 LVDT conditioning module, for Industrial applications requiring the DIN standard rail mount, form factor. The LDM LVDT / RVDT conditioner provides everything you will need for interfacing AC powered linear and rotary differential transformers, to your industrial position control system. The LDM -1000 is designed with maximum sensor / system compatibility in mind. A wide range combination of gains, drive voltages and oscillator frequencies insure compatibility with virtually all LVDT and RVDT type sensors. The LDM -1000 provides several different input / output options, to accommodate varying PLC analog I/O requirements. Single-ended voltage outputs are possible, with the use of 100% zero suppression, to maximize the sensor stroke utilization while simplifying programming, (no need to deal with sign). Bipolar voltage output will maximize A/D bit usage, with most PLC analog input modules, for applications requiring highest resolution. The 4-20 mA current output is most useful for applications requiring long signal runs to the PLC, where noise immunity may be an issue. The 4-20 loop is driven by an internal loop supply, provided by the LDM -110.



Features

- Standard DIN Rail Form Factor
- 10 To 30 Volt DC Operation
- Voltage And Current Output Signals
- Internal Loop Drive
- Status LEDs For Power & Loop Integrity
- 2.5, 5.0 & 10.0 kHz Sensor Excitation
- Low Noise Three Pole Butterworth Filter
- Front Mounted Zero, Phase & Span, Controls
- 4-Wire Hook-Up
- Phase Correction, For Use With Long Cable Runs
- 100% Zero Suppression
- Multiple LVDT Master / Slave Capability
- Compatible With Four, Five or Six-Wire LVDTs

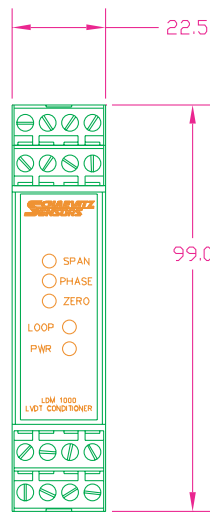
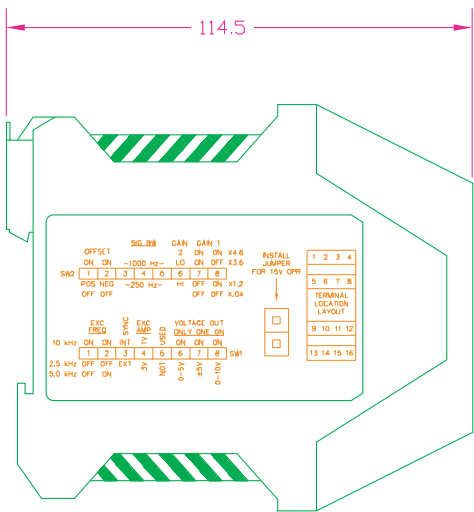
Applications

- Gas and Steam Turbine Control Systems
- Paper Head Box Control
- Automotive Test Track Instrumentation
- Reeler / De-reeler Control Systems
- Bridge Deflection Testing
- Remote Monitoring Of Road
- Surface Expansion / Compression
- Industrial Conveyor Belt Tension

■ Specifications

Electrical Input: Voltage	18 to 30 V dc. (default) 10 to 18 Vdc. (jumper selectable)
Current Output: Voltage	60 mA. (max) ± 5, 0 to 5 and 0 to 10 Volts dc
Noise and Ripple Current	5 mV rms. 4 to 20 mA
Noise and Ripple Frequency Response	20 µ Amps 3 dB down @ 250 or 1000 Hz
Sensor Excitation: Volts ac.	1 & 3Volts RMS
LVDT drive current	25 mARMS (max.)
Oscillator Frequency	2.5, 5.0 & 10.0 kHz
Minimum LVDT Input Impedance	50 (at 1.0 Vrms. excitation)
Accuracy: Linearity (typical)	±0.02 % of full scale
Temperature Coefficient	<± .02% per deg. F (fso), (<± .04% per deg. C)
Environmental: Operating Temperature	-25° to +85° C
Survival Temperature	-55° to +125° C
Mechanical: Form Factor	DIN rail 22.5 mm. Wide 99.0 mm. High 114.5 mm. Deep
Wire Size	24 to 12 AWG (0.2 to 2.5 mm)

■ Dimensions (in mm)



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