

AC-POWERED SIGNAL CONDITIONERS FOR AC LVDTs PROVIDE TRANSDUCER EXCITATION AND DC VOLTAGE OR CURRENT OUTPUT



DP25B-E meter.

LDX-3A, shown smaller than actual size.

LDX-3A

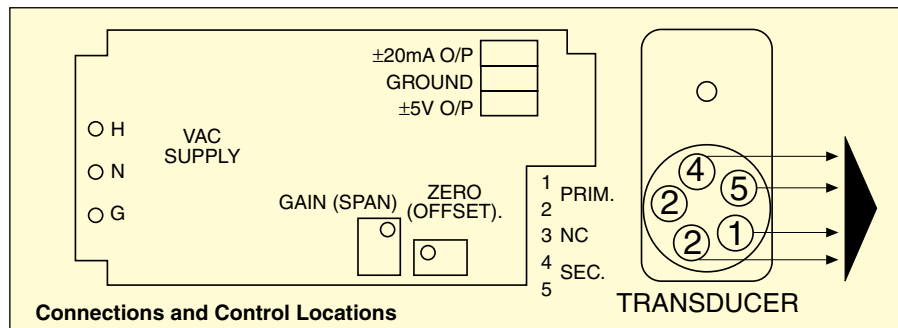


LD320 sensor.

- ✓ Works Well with LD200 and LD300 Series Transducers
- ✓ Oscillator/Demodulator Provides 0.05% FS Linearity
- ✓ Selectable Outputs of ± 5 V or ± 20 mA
- ✓ Interfaces with Standard Laboratory Instruments
- ✓ Adjustable Zero, Span, and Phase Controls
- ✓ Rugged Metal Case
- ✓ Transducer Drive: 3 Vrms, Selectable at 2.5 or 5 kHz

The LDX-3A is a compact oscillator/demodulator unit with adjustable span, zero, and phase controls for use with any OMEGA® (as well as most other manufacturers') AC LVDT transducers. The device is housed in a die-cast aluminum box that provides a high degree of mechanical and environmental protection. The LDX-3A incorporates its own regulation for operation from AC power of 120V. A 2.7 m (9') power cable is standard.

The unit can drive outputs of 0 to ± 5 V into 10 k Ω , or ± 20 mA into 100 Ω max. This, together with a 10:1 range of span controls, makes the LDX-3A a versatile single-channel conditioner for a wide range of transducers.



SPECIFICATIONS

MECHANICAL

Weight: 400 g (14 oz)
Mounting: 2 fixing straps and screws
Accessories: Connector and mounting hardware included
Dimensions: 130 H x 96 W x 35 mm D (5.1 x 3.8 x 1.4")

ELECTRICAL

Power Supply: 120/250 Vac, 50 to 60 Hz
Transducer Drive: 3 Vrms at 2.5 or 5 kHz @ 20 mA
Loading: 4 W max
Fuse Rating: 63 mA slow blow
Oscillator Protection: Open and short circuit protected

Range of Zero Control: 0 to 100% adjustable

Output Voltage: ± 5 V into 10 k Ω min

Output Current: ± 20 mA into 100 Ω max

Output Protection: Open and short circuit protected

Output Ripple: 10 mV p-p at 10 kHz

Output Filter: Second-order low pass at 250 Hz or 110 Hz

Linearity: 0.05% FS

Temp Range: 0 to 60°C (32 to 140°F)

Temp Coefficient:

Zero: 0.02% FS/°C (0.011% FS/°F)

Span: 0.02% FS/°C (0.011% FS/°F)

Terminations: 5-pin DIN connector

To Order Visit omega.com/idx-3 for Pricing and Details

MODEL NO.	DESCRIPTION
LDX-3A	AC-powered signal conditioner for AC LVDTs

Comes complete with power cord and operator's manual.

Ordering Example: LDX-3A, signal conditioner.

DISPLACEMENT