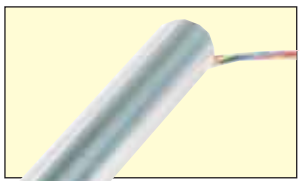
ECONOMICAL LVDT DISPLACEMENT TRANSDUCERS—LD200 SERIES
AC POWERED



LD200-2.5, $130, shown with LDX-3A signal conditioner, $460, (see Page J-34) and DP41-E meter, $545 (see Page D-15).





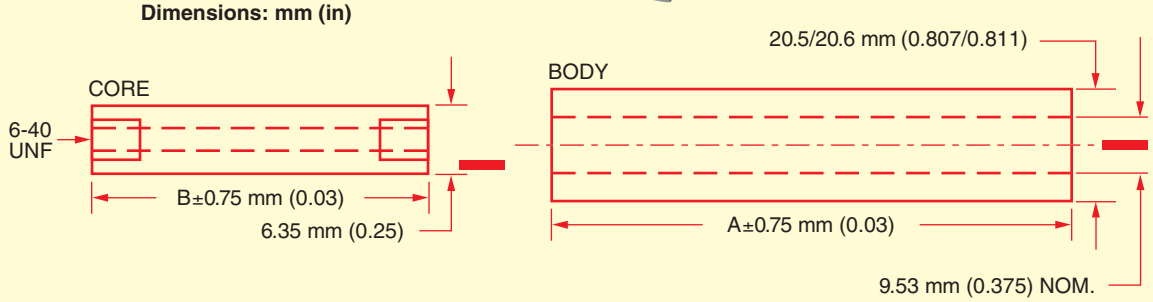


LD200 Series
±1.25 to ±10.0 mm
(±0.050 to ±0.400 in)



Shown smaller than actual size.

Dimensions: mm (in)



Dimensions: mm (in)

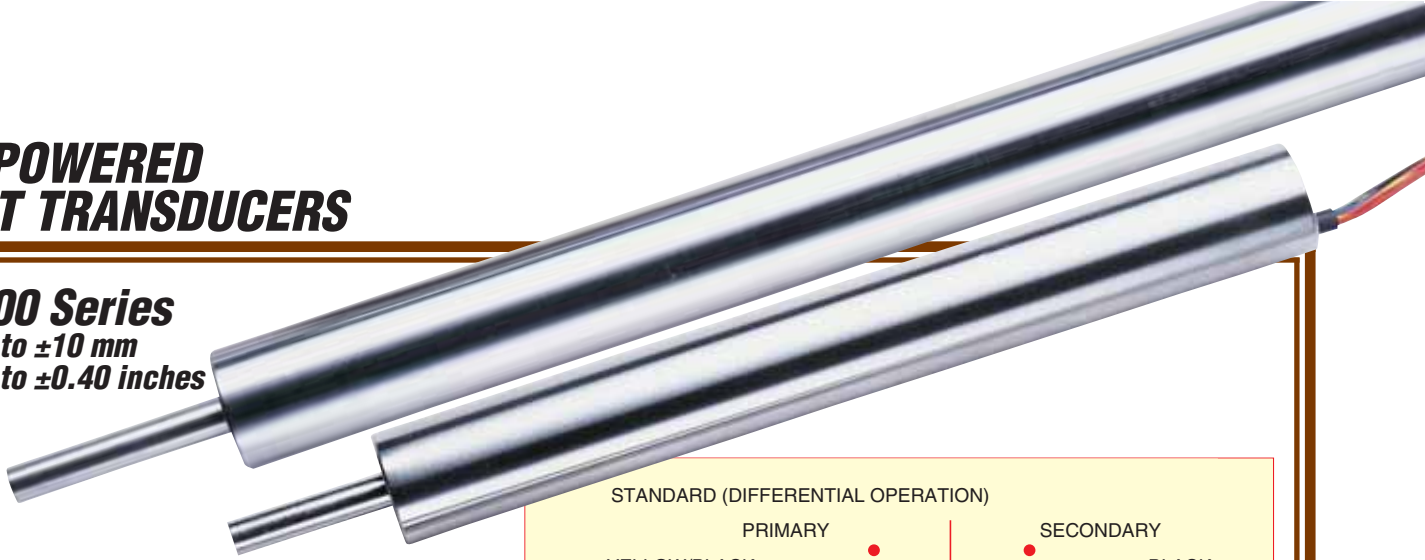
Dimensions

MODEL NO.	LINEAR STROKE ± mm (in)	A	B
LD200-1.25	1.25 (0.05)	28.45 (1.12)	20.00 (0.80)
LD200-2.5	2.50 (0.10)	45.97 (1.81)	28.00 (1.10)
LD200-5	5.00 (0.20)	63.50 (2.50)	47.00 (1.85)
LD200-7.5	7.50 (0.30)	81.00 (3.19)	50.00 (1.97)
LD200-10	10.0 (0.40)	109.60 (4.31)	75.00 (2.95)

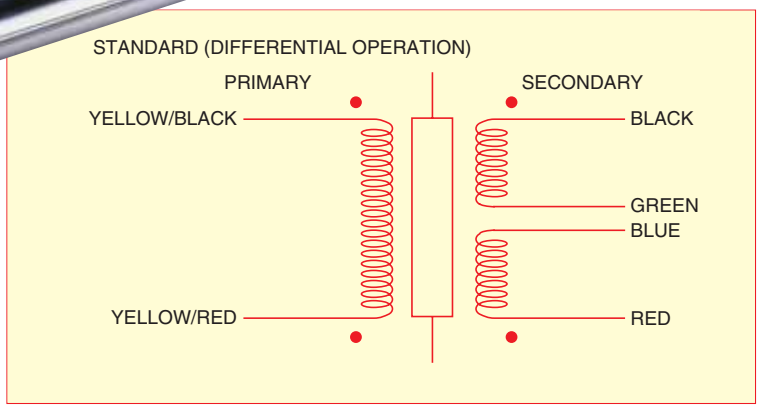
AC POWERED LVDT TRANSDUCERS

LD200 Series

±1.25 to ±10 mm
±0.05 to ±0.40 inches



Shown smaller than actual size.



- **Low Cost—High Linearity**
- **Rugged Construction for Machine Tools and Vehicles**
- **Large Core Clearance for Easy Installation**
- **Compatible with Standard AC LVDT Instruments**
- **Cores Are Reversible and Interchangeable**

The LD200 Series AC powered LVDT transducers provide an economically priced range of displacement sensors that feature rugged construction and high performance. The series covers a broad range of measurements from 1.25 to 10 mm (0.05 to 0.40"). Use these transducers where high resolution and repeatability are important.

The coils are wound on a rugged bobbin housed in a stainless steel case. Its epoxy bonded construction makes the device suitable for operation in applications with wet or oily environments or where high levels of mechanical stress (vibration, shock, etc.) are encountered. The armature assembly provides friction-free movement within the sensor due to the large radial clearance of the bore.

These transducers offer excellent linearity, low levels of residual voltage, and good temperature coefficients, making them ideal for most industrial or general purpose displacement measurement applications.

SPECIFICATIONS

ELECTRICAL

Linearity: See chart
Sensitivity: See chart (mV/V/mm)
Excitation: 1 to 10 Vrms
Excitation Frequency: 1 to 10 kHz
Energizing Current: <40 mA
Frequency Response: 10% of excitation frequency
Zero Offset: 0.5% FS
Operating Temperature:
-55 to 150°C (-67 to 302°F)
Compensated Temperature:
-55 to 150°C (-67 to 302°F)
Thermal Effects:
Zero: 0.025%/°C
Sensitivity: 0.020%/°F
Electrical Termination:
0.3 m (12") leads
Electrical Connections:
Yellow/Black: Excitation
Yellow/Red: Excitation
Black: + Signal
Red: Signal Ground
Connect Blue and Green together

MECHANICAL

Core Mass:
LD200-1.25: 3.7 g (0.13 oz)
LD200-2.5: 6.2 g (0.22 oz)
LD200-5: 9.1 g (0.32 oz)
LD200-7.5: 11.3 g (0.40 oz)
LD200-10: 14.2 g (0.50 oz)
Core Thread: 6-40 UNF
Core Material: NiFe - Radio Metal 50
Radial Core Clearance: 1.6 mm (0.062")
Case Material: 400 Series Stainless Steel
Case Weight:
LD200-1.25: 33 g (1.16 oz)
LD200-2.5: 43 g (1.52 oz)
LD200-5: 48 g (1.73 oz)
LD200-7.5: 71 g (2.50 oz)
LD200-10: 74 g (2.61 oz)

	Nominal Range		Linearity - Typical 2.5 kHz % of Full Scale				Sensitivity @ 2.5 kHz - Nom	
MODEL NO.	mm	in	50%	100%	125%	150%	mV/V/mm	mV/V/0.001"
LD200-1.25	±1.25	±0.05	0.10	0.25	0.25	0.50	250	6.35
LD200-2.5	±2.50	±0.10	0.10	0.25	0.25	0.50	180	4.50
LD200-5	±5.00	±0.20	0.10	0.25	0.25	0.50	100	2.54
LD200-7.5	±7.50	±0.30	0.10	0.25	0.25	0.50	57	1.40
LD200-10	±10.0	±0.40	0.10	0.25	0.25	0.40	35	0.90

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order *(Specify Model Number)*

MODEL NO.	PRICE	COMPATIBLE INSTRUMENTS*
LD200-1.25	$100	DP-LVDT, LDX-2, LDX-3A, LDX-4
LD200-2.5	140	DP-LVDT, LDX-2, LDX-3A, LDX-4
LD200-5	180	DP-LVDT, LDX-2, LDX-3A, LDX-4
LD200-7.5	196	DP-LVDT, LDX-2, LDX-3A, LDX-4
LD200-10	225	DP-LVDT, LDX-2, LDX-3A, LDX-4

** See pages J-33 thru J-36 for compatible instruments.*
Comes with complete operator's manual.
Ordering Example: LD200-5, *LVDT displacement transducer with a range of ±5 mm (±0.20 in.),* ***$180.***