

ECONOMICAL LVDTs WITH IN-LINE SIGNAL CONDITIONER

LD610 Series

±1.5 to ±250 mm
(±0.06 to ±10")

Starts at
\$415



- ✓ ±10 Vdc Output
- ✓ IP66 Environmental Rating
- ✓ Guided Core with Removable Spring
- ✓ Stainless Steel Body and Carrier

The LD610 Series comprises economical LVDTs with in-line signal conditioners, available in stroke lengths from ±1.5 to ±250 mm (±0.06 to ±10"). They feature a guided core with standard spring loading. For applications requiring free travel, the spring can easily be removed in the field. The LD610 Series operates on a ±15 Vdc supply and provides a ±DC voltage output.

SPECIFICATIONS

Excitation Voltage:

±15 Vdc @ 18 mA max

Output: ±10 Vdc

Linearity: 0.3% FS

Bandwidth: 250 Hz

Output Current Drive: 8 mA max

Storage Temperature:

Probe: -55 to 70°C (-67 to 158°F)

Signal Conditioner: -55 to 70°C (-67 to 158°F)

Operating Temperature:

Probe: -55 to 70°C (-67 to 158°F)

Signal Conditioner: 0 to 70°C (32 to 158°F)

Zero Temperature Coefficient:

0.025% FS/°C

Span Temperature Coefficient:

0.03% FS/°C

Environmental Rating: IP66

Materials of Construction:

Body: Stainless steel

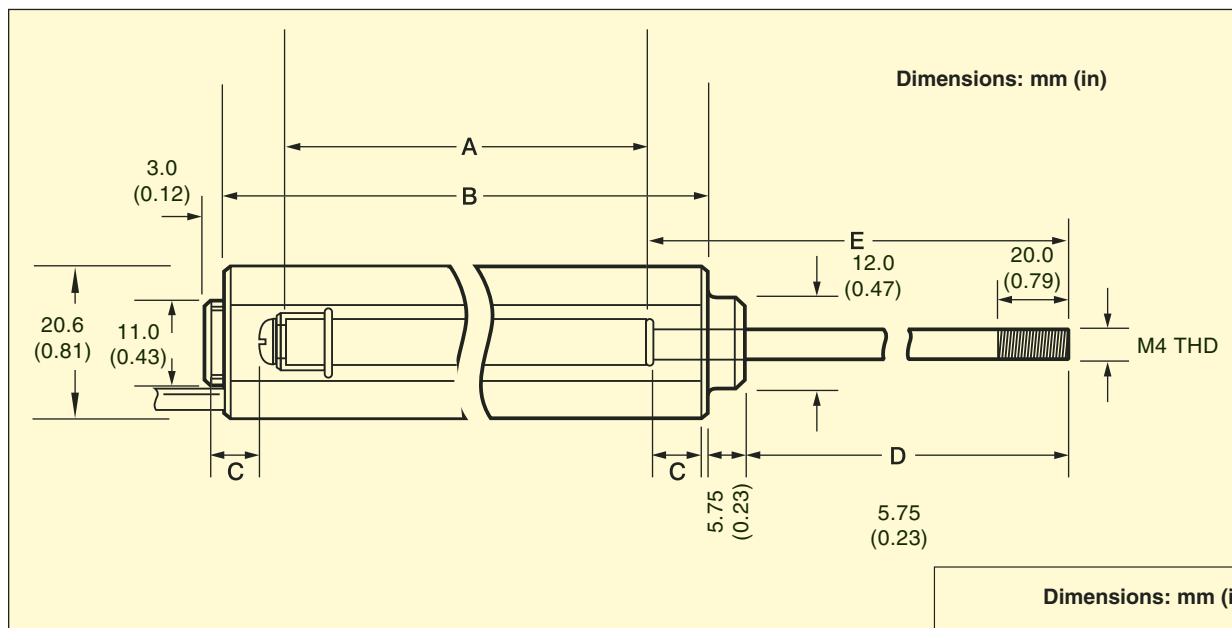
Core: Nickel/iron alloy



Dimensions: mm (in)

RANGE (mm)	1.5	2.5	5	10	15	25	50	100	250
A	20.3 (0.80)	33.0 (1.14)	42.0 (1.34)	75.0 (2.95)	88.0 (3.46)	102.0 (4.02)	135.0 (5.31)	178.0 (7.01)	216.0 (8.50)
B	28.6 (1.13)	46.3 (1.82)	62.2 (2.45)	112.5 (4.43)	141.2 (5.56)	169.9 (6.69)	256.1 (10.08)	399.7 (15.74)	787.4 (31.0)
C	3.3 (0.13)	4.1 (0.24)	7.5 (0.45)	16.2 (0.64)	24.0 (0.94)	31.4 (1.24)	58.0 (2.28)	108.3 (4.26)	283.0 (11.14)
D (@ null)	32.0 (1.26)	35.5 (1.40)	46.5 (1.83)	59.5 (2.34)	68.5 (2.70)	82.5 (3.25)	128.5 (5.06)	209.5 (8.25)	448.5 (17.66)
E	42.0 (1.65)	50.0 (1.97)	66.0 (2.60)	84.0 (3.31)	100.0 (3.94)	122.0 (4.80)	195.0 (7.68)	326.0 (12.83)	740.0 (29.13)
Spring rate gm/mm	3.03	3.03	2.42	3.51	3.07	2.05	2.99	1.68	N/A

ECONOMICAL LVDTs



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	RANGE mm (in)	COMPATIBLE METER
LD610-1.5	\$415	±1.5 (±0.06)	DP41-E*
LD610-2.5	430	±2.5 (±0.1)	DP41-E*
LD610-5	475	±5 (±0.2)	DP41-E*
LD610-10	525	±10 (±0.4)	DP41-E*
LD610-15	560	±15 (±0.5)	DP41-E*
LD610-25	595	±25 (±1)	DP41-E*
LD610-50	620	±50 (±2)	DP41-E*
LD610-100	855	±100 (±4)	DP41-E*

* Requires external power supply. For PSS-D15A, \$115, see page C-14. For DP41-E meter, see page D-31.

Comes with complete operator's manual.

Ordering Example: LD610-1.5, economical LVDT with ±1.5 mm (±0.06") range and in-line signal conditioner, \$415.

ACCESSORY

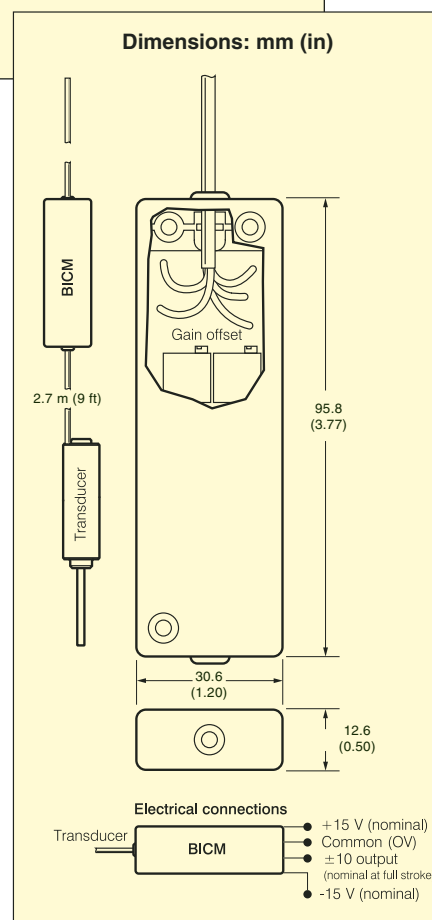
MODEL NO.	PRICE	DESCRIPTION
GE-2530	\$155	Reference Book: Control Valves

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
PSS-D15A	\$115	Dual-output external power supply
DP41-E	545	½ DIN high-performance panel meter

SPECIFICATIONS BY RANGE

DESCRIPTION	1.5 (0.06)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	25 (1)	50 (2)	100 (5)	250 (10)
Linear stroke ±mm (±in)	1.5 (0.06)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	25 (1)	50 (2)	100 (5)	250 (10)
Transducer weight g (oz)	38 (1.3)	50 (1.8)	60 (2.1)	86 (3.0)	105 (3.7)	126 (4.4)	195 (6.8)	350 (12.3)	700 (24.5)
Core weight g (oz)	3.8 (0.13)	6 (0.2)	7.5 (0.26)	15 (0.5)	17 (0.6)	20 (0.7)	26 (0.9)	35 (1.2)	42 (1.5)



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