ECONOMICAL LVDTs WITH IN-LINE SIGNAL CONDITIONER

LD610 Series ±1.5 to ± 250 mm $(\pm 0.06 \text{ to } \pm 10^{\circ})$

> Starts at \$415



- ✓ 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 $(\pm 0.06$ 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

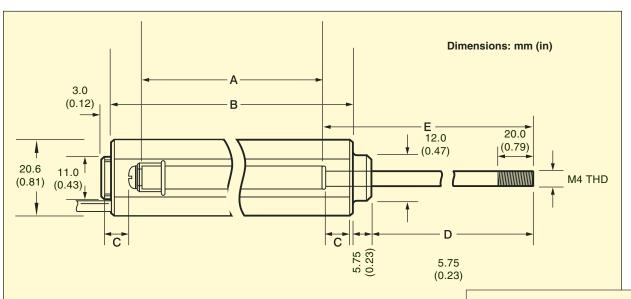
Environmental Rating: IP66 Materials of Construction: Body: Stainless steel Core: Nickel/iron alloy



Dimensions: mm (in)

RANGE (mm)	1.5	2.5	5	10	15	25	50	100	250
А	20.3	33.0	42.0	75.0	88.0	102.0	135.0	178.0	216.0
	(0.80)	(1.14)	(1.34)	(2.95)	(3.46)	(4.02)	(5.31)	(7.01)	(8.50)
В	28.6	46.3	62.2	112.5	141.2	169.9	256.1	399.7	787.4
	(1.13)	(1.82)	(2.45)	(4.43)	(5.56)	(6.69)	(10.08)	(15.74)	(31.0)
С	3.3	4.1	7.5	16.2	24.0	31.4	58.0	108.3	283.0
	(0.13)	(0.24)	(0.45)	(0.64)	(0.94)	(1.24)	(2.28)	(4.26)	(11.14)
D (@ null)	32.0	35.5	46.5	59.5	68.5	82.5	128.5	209.5	448.5
	(1.26)	(1.40)	(1.83)	(2.34)	(2.70)	(3.25)	(5.06)	(8.25)	(17.66)
E	42.0	50.0	66.0	84.0	100.0	122.0	195.0	326.0	740.0
	(1.65)	(1.97)	(2.60)	(3.31)	(3.94)	(4.80)	(7.68)	(12.83)	(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 <i>(Specify Model Number)</i>							
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	1/2 DIN high-performance panel meter

SPECIFICATIONS BY RANGE

DESCRIPTION									
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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