

SUBMERSIBLE LVDT'S WITH 4 to 20 MA OUTPUT



LD680 Series



- ✓ Rugged Construction for Harsh Environments
- ✓ Extra Screening Against Electrical Interference
- ✓ Stainless Steel Body and Core Carrier
- ✓ IP68 Environmental Rating
- ✓ Captive Core Design

The LD680 Series are submersible DC LVDT's with a 2 wire 4 to 20 mA loop output. They are environmentally sealed up to 100 bar (1500 psi) and come standard with 1 m (3.3') of mineral insulated cable and 3 m (9.8') of polyurethane cable. Other lengths are available on special order.

SPECIFICATIONS

Linearity: <0.2% FSO

Excitation Voltage: 10 to 30 Vdc

Output: 4 to 20 mA

Output Ripple: 0.02% FSO

Bandwidth: 500 Hz (-3 dB)

Storage Temp: -20 to 85°C (-4 to 185°F)

Operating Temp: 0 to 65°C (-4 to 149°F)

Temperature Coefficient: <0.03% FSO/
°C (0.017%/°F)

Vibration (Sinusoidal):

10 to 50 Hz: 1 to 10 g rms linear

50 Hz to 1 kHz: 10 g rms

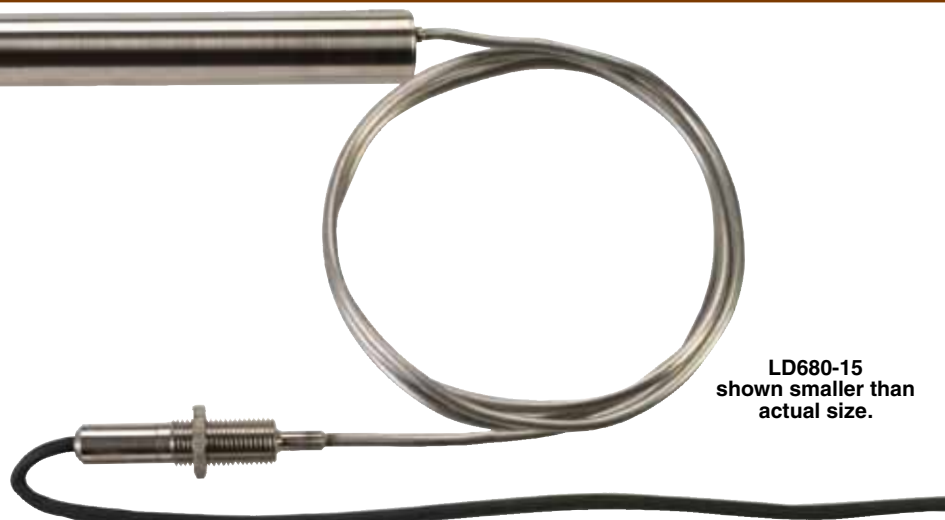
Shock: Drop test 1 meter onto hard surface

Connection: 1 m (3.3') of mineral insulated cable with 3 m (9.8') of polyurethane cable (standard)

Sealing: Sealed up to 100 bar (1500 psi)

Body Material: 300 series stainless steel

Core Material: Nickel-iron

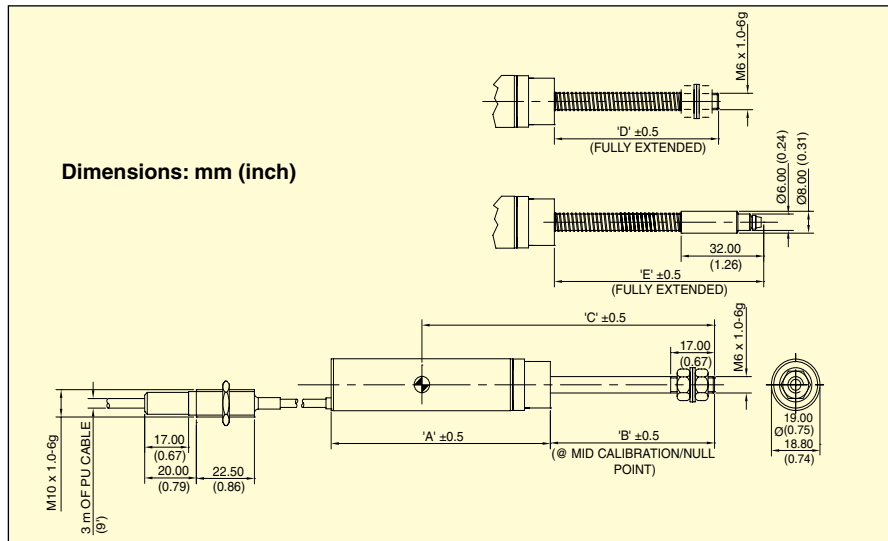


LD680-15
shown smaller than
actual size.

Dimensions: mm (inch)

RANGE	A	B	C	D	E
0 to 5 (0.20)	101.5 (4.00)	32.4 (1.28)	66.0 (2.60)	35.8 (1.41)	50.9 (2.00)
0 to 10 (0.39)	120.5 (4.74)	40.3 (1.59)	83.1 (3.27)	46.8 (1.84)	61.9 (2.44)
0 to 15 (0.59)	128.0 (5.04)	41.6 (1.64)	88.4 (3.48)	50.8 (2.00)	65.9 (2.59)
0 to 20 (0.79)	142.5 (5.61)	49.1 (1.93)	103.1 (4.06)	61.8 (2.43)	76.9 (3.03)
0 to 30 (1.18)	156.5 (6.16)	59.5 (2.34)	120.4 (4.74)	79.8 (3.14)	94.9 (3.74)
0 to 50 (1.97)	178.5 (7.03)	71.8 (2.83)	143.9 (5.67)	102.8 (4.05)	117.9 (4.64)

Dimensions: mm (inch)



To Order

MODEL NO.	RANGE mm (inch)	COMPATIBLE METERS
LD680-5	0 to 5 (0 to 0.2)	DP41-E, DP25B-E, DPi Series
LD680-10	0 to 10 (0 to 0.39)	DP41-E, DP25B-E, DPi Series
LD680-15	0 to 15 (0 to 0.6)	DP41-E, DP25B-E, DPi Series
LD680-20	0 to 20 (0 to 0.8)	DP41-E, DP25B-E, DPi Series
LD680-30	0 to 30 (0 to 1.2)	DP41-E, DP25B-E, DPi Series
LD680-50	0 to 50 (0 to 2.0)	DP41-E, DP25B-E, DPi Series

Comes complete with operator's manual.

Ordering Examples: LD680-15, submersible displacement sensor with 0 to 15 mm stroke and 4 to 20 mA output.

LD680-30, submersible displacement sensor with 0 to 30 mm stroke and 4 to 20 mA output.