

AC LVDT DISPLACEMENT SENSORS

LD320 Series

- ✓ ± 2.5 to ± 150 mm travel
- ✓ $<0.2\%$ Linearity
- ✓ Rugged 19 mm Dia. Stainless Steel Body
- ✓ Rigid Stainless Steel Carrier
- ✓ Guided Core with Removable Spring
- ✓ IP67 Protection

The LD320 Series displacement sensors have a stainless steel body with improved IP67-rated sealing, coupled with new polymer guides with rigid carriers. These transducers are accurate and reliable, especially in wet and corrosive conditions.

An unusually large bore-to-core clearance is maintained throughout the range, even on transducers fitted with on-board signal conditioning. This makes installation easier and helps prevent misalignment.

SPECIFICATIONS

Linearity: $<0.2\%$ FSO

Excitation: 3 ± 1 Vrms

Excitation Frequency: 5 ± 0.5 kHz

Residual Voltage at Null Position: $<0.5\%$ FSO

Storage Temp: -40 to 120°C
(-40 to 248°F)

Operating Temp: -40 to 120°C
(-40 to 248°F)

Protection Rating: IP67

Vibration (Sinusoidal Frequency):
10 to 50 Hz: 1 to 10 g rms linear
50 Hz to 1 kHz: 10 g rms linear

Shock:

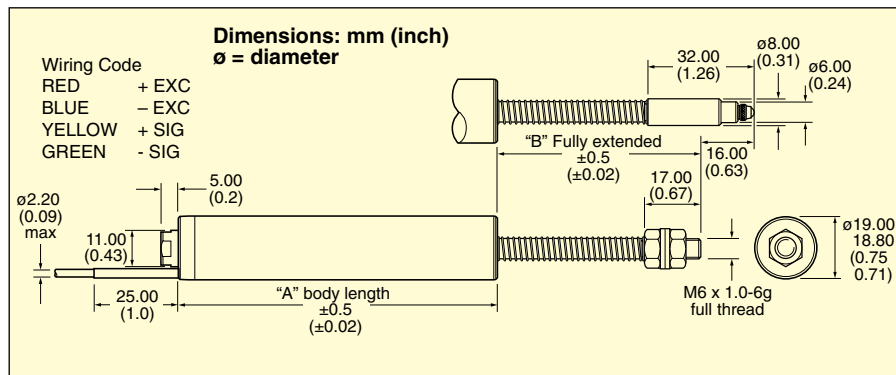
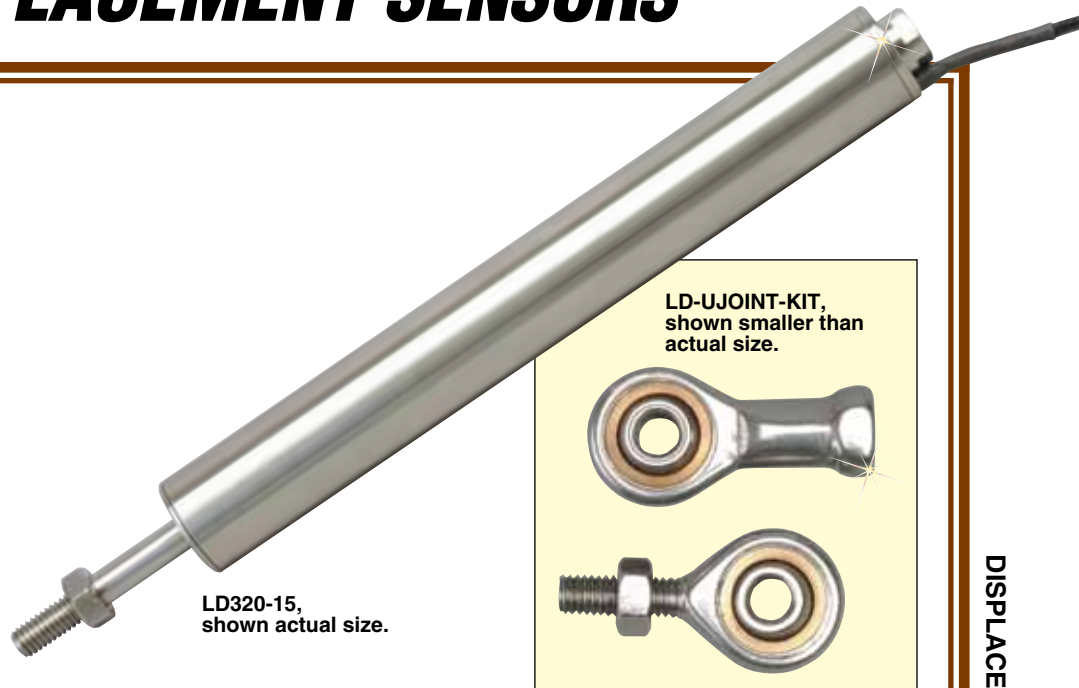
Drop Testing: 1 m (3') onto hard surface

Topple Testing: 10 times each end onto hard surface

Case Material: 300 SS

Cable: PFA, 2 m (6') long

Core Material: Nickel-iron



To Order

MODEL NO.	RANGE: mm (inch)	"A" DIM mm (inch)	"B" DIM mm (inch)	COMPATIBLE INSTRUMENTATION
LD320-2.5	± 2.5 (± 0.1)	55.0 (2.2)	31.5 (1.2)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-5	± 5 (± 0.2)	74.5 (2.9)	39.0 (1.5)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-7.5	± 7.5 (± 0.3)	81.7 (3.2)	41.9 (1.7)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-10	± 10 (± 0.4)	96.0 (3.8)	48.8 (1.9)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-15	± 15 (± 0.5)	110.4 (4.4)	58.3 (2.3)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-25	± 25 (± 1.0)	131.9 (5.2)	71.1 (2.8)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-50	± 50 (± 2.0)	189.5 (7.5)	106.0 (4.2)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-75	± 75 (± 3.0)	239.7 (9.4)	151.9 (6.0)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-100	± 100 (± 3.9)	297.2 (11.7)	291.2 (11.5)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53
LD320-150	± 150 (± 5.9)	412.0 (16.2)	457.3 (18.0)	LDX-D, LDX-2, LDX-3A, LDX-4, DPL53

Ordering Examples: LD320-7.5, LVDT displacement transducer, range of ± 7.5 mm (± 0.3 ").
LD-UJOINT-KIT, U-joint kit.

ACCESSORIES

MODEL NO.	DESCRIPTION
LD-TIP	Tip adaptor/ball tip
LD-UJOINT-KIT	U-joint retro fit kit