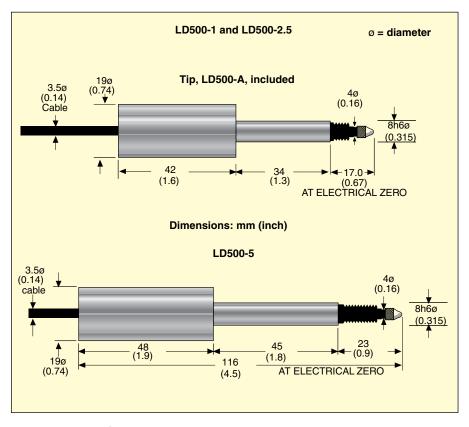
PRECISION DC GAGING TRANSDUCERS FOR QUALITY CONTROL OR AUTOMATION TOOLING



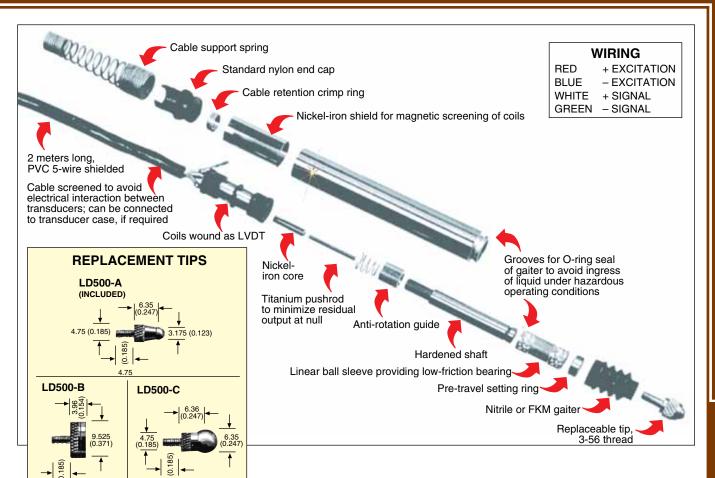


- High Accuracy and Repeatability
- Rugged Industrial Construction
- Replaceable Tips
- Repeatability Better Than 0.15 μm
- Linear Ball-Bearing Actuator

These precision-manufactured displacement transducers can be mounted to most production lines to perform automatic gaging for quality, sorting, or go/no-go applications. The hardened steel shaft, O-ring seals, and titanium pushrod can withstand most industrial conditions. The hybrid IC module produces a linear mV/V/mm (or inch) output that will interface with most standard DC input meters, recorders, data interfaces, and industrial controllers.



DC GAGING TRANSDUCERS



To Order Visit omega.com/ld500 for Pricing and Details						
MODEL NO.	STROKE, ±mm (inch)	COMPATIBLE METERS				
LD500-1	±1.0 (0.04)	DP41-S, DP25B-S				
LD500-2.5	±2.5 (0.10)	DP41-S, DP25B-S				
LD500-5	±5.0 (0.20)	DP41-S, DP25B-S				

Ordering Example: LD500-2.5, DC gaging probe with a range of ±2.5 mm (0.10") and LD500-A tip included.

SPECIFICATIONS: MECHANICAL

SPECIFICATIONS: ELECTRICAL

Dimensions:

mm (inch)

LD500-D

	LINEAR STROKE	SPRING		TEMPERATURE	TEMP COEFFICIENTS		
MODEL NO.	mm (inch)**	RATE	REPEATABILITY	RANGE	ZERO	SENSITIVITY	LINEARITY
LD500-1	±1.0 (0.04)	13 g/mm	<0.15 μm (6 μin)	-20 to 80°C	<0.01%/°C	<0.01%/°C	0.25%
LD500-2.5	±2.5 (0.10)	13 g/mm	<0.15 μm (6 μin)	-20 to 80°C	<0.005%/°C	<0.01%/°C	0.25%
LD500-5	±5.0 (0.20)	10 g/mm	<0.10 μm (4 μin)	-20 to 80°C	<0.005%/°C	<0.01%/°C	0.25%
SPECIFICATIONS: FLECTRICAL ** Output nulls in mechanical middle							

MODEL NO.	CURRENT	INPUT VOLTAGE	OUTPUT RIPPLE (TYPICAL)	TIME	FREQUENCY RESPONSE	SENSITIVITY†	CABLE
LD500-1	10 mA	10 to 24 Vdc	<1% FS	1.5 ms		78 mV/V/mm (1.98 mV/V/0.001 inch)	2 m (6') long, PVC 5-wire shielded
LD500-2.5	10 mA	10 to 24 Vdc	<1% FS	1.5 ms		78 mV/V/mm (1.98 mV/V/0.001 inch)	2 m (6') long, PVC 5-wire shielded
I D500-5	13 mA	10 to 24 Vdc	<1% FS	1.5 ms	100 Hz for	56 mV/V/mm	2 m (6') long PVC

(1.98 mV/V/0.001 inch) 5-wire shielded

- 3 dB