VNVI UC CVCINC DDUDEC

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MODEL	GP911-1-S	GP911-2.5-S	GP911-5-S
A	46.0	72.5	91
	(1.8)	(2.8)	(3.6)
B1	14.15	17.65	25.65
	(0.56)	(0.70)	(1.01)
B2	11.65	11.65	14.65
	(0.46)	(0.46)	(0.58)
B3	12.65	14.75	20.25
	(0.50)	(0.58)	(0.80)
С	3.5	4.0	4.0
	(0.14)	(0.16)	(0.16)
D	42.5	68.5	87.0
	(1.67)	(2.70)	(3.43)

PNEUMATICALLY ACT	UATED Dimen	nsions: mm	(inch)
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MODEL	GP911-1-P	GP911-2.5-P	GP911-5-P
A	51.0	73.0	98.0
	(2.01)	(2.88)	(3.86)
B1	14.05	17.55	25.55
	(0.55)	(0.69)	(1.01)
B2	11.05	11.55	14.55
	(0.44)	(0.45)	(0.57)
B3	12.75	14.75	20.25
	(0.50)	(0.58)	(0.80)



SPECIFICATIONS

Excitation Voltage: 1 to 10 Vrms Excitation Frequency: 2 to 20 kHz Linearity: 0.5% rdg or 0.1% FS, whichever is greater Repeatability: 0.15 microns Calibration Voltage: 3 Vrms Calibration Frequency: 5 kHz Calibration Load: 10 k Ω Storage Temp: -40 to 100°C (-40 to 212°F) Operating Temp: -10 to 80°C (14 to 176°F) Temp Coefficient: 0.01% FS/°C (0.03% for 0.5 mm model)

To Order Visit omega.com/gp911 for Pricing and Details						
MODEL NO.	RANGE: mm (inch)	ACTUATION				
GP911-0.5-S	±0.5 (0.02)	Spring loaded				
GP911-1-S	±1 (0.04)	Spring loaded				
GP911-2.5-S	±2.5 (0.10)	Spring loaded				
GP911-5-S	±5 (0.20)	Spring loaded				
GP911-1-P	±1 (0.04)	Pneumatic				
GP911-2.5-P	±2.5 (0.10)	Pneumatic				
GP911-5-P	±5 (0.20)	Pneumatic				
GP911-5-P	±5 (0.20)	Pneumatic				

Comes complete with operator's manual.

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LD320 Series



- ✓ ±2.5 to ±150 mm travel
- <0.2% Linearity</p>
- 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	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

end onto hard surface	MODEL NO.	DESCRIPTION	I
Case Material: 300 SS			1
	LD-TIP	Tip adaptor/ball tip	1
Cable: PFA, 2 m (6) long			1
Core Material: Nickel-iron	LD-UJOINT-KIT	U-joint retro fit kit	
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WITH GUIDED CORE



MODEL NO.	RANGE mm (inch)	A DIMENSION mm (inch)	B DIMENSION mm (inch)	COMPATIBLE SIGNAL CONDITIONERS				
LD340-1.5	± 1.5 (0.06)	20.60 (0.811)	14.10 (0.555)	LDX-2, LDX-3A, LDX-4, LDX-D				
LD340-6	± 6 (0.24)	46.50 (1.831)	21.00 (0.827)	LDX-2, LDX-3A, LDX-4, LDX-D				
LD340-12.5	± 12.5 (0.49)	83.50 (3.287)	31.70 (1.248)	LDX-2, LDX-3A, LDX-4, LDX-D				

Comes complete with operator's manual.

Ordering Examples: LD340-1.5, miniature AC LVDT with ± 1.5 mm (0.06") stroke.

LD340-6, miniature AC LVDT with \pm 6 mm (0.24") stroke.

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DISPLACEMENT TRANSDUCERS WITH ACETAL BEARINGS

±1 to ±5 mm (±0.04 to ±0.20")

LD400 Series



- High-Output Miniature Transducers
- Acetal Bearings for Precise Motion
- Infinite Resolution
- Rugged, Low-Mass Construction
- Compatible with Standard DC Signal
- Conditioning Modules and Instruments

The LD400 Series miniature DC to DC transducers can measure displacements up to ± 5 mm ($\pm 0.20^{\circ}$) with very high accuracy and infinite resolution. Their free-guided armature incorporates acetal bearings, which provide near-frictionless motion to detect the smallest movement the associated instrumentation is capable of identifying.

These transducers use a precision linear variable differential transformer as the measuring source, along with hybrid ICs, including an oscillator, demodulator, and filter. Together, they make up a self-contained unit that accepts DC input and provides DC output relative to armature position. The unit's high linearity and low mass of moving parts are ideal for applications in civil, mechanical, chemical, and production engineering.

SPECIFICATIONS ELECTRICAL

Linearity: 0.3% FS Sensitivity: (mV/V/mm) see chart below (actual output supplied with each unit) Excitation: 10 to 24 Vdc regulated

Energizing Current at 10 Vdc: LD400-1, 10 mA; LD400-25, 10 mA; LD400-5, 13 mA

Response Time: LD400-1 and LD400-2.5 = 5 ms; LD400-5 = 3 ms

Frequency Response: 50 Hz for -3 dB Ripple: <1% FS

Thermal Effect: Zero: LD400-1 <0.02% FS/°C; LD400-2.5 and LD400-5 <0.01% FC/°C; sensitivity: <0.025% FC/°C **Compensated Temperature Range:** -20 to 80°C (-4 to 176°F)

Operating Temperature Range: -20 to 80°C (-4 to 176°F)

LD400-5, shown actual size.

Electrical Connection: 2.9 m (9') shielded, color-coded cable Sensitivity and Linearity Data:

Sensitivity and Linearity Data: Provided with a transducer output

impedance of 2.4 k Ω into a calibration load of 20 k Ω at 20°C (68°F); variations in these parameters will change performance

MECHANICAL

Threaded Core: M2 thread Core Material: Ni/Fe—Radio Metal 50 Case Material:

400 Series stainless steel

Weight: See chart on next page

CONNECTIONS

Electrical Connections:

Red: + Excitation Blue: - Excitation White: + Signal* Green: - Signal Yellow: No connection

* White and red in phase for positive inward displacement.

To Order Visit omega.com/Id400 for Pricing and Details						
MODEL NO. STROKE SENSITIVITY COMPATIBLE METERS						
LD400-1	±1.0 mm (0.06")	75 mV/V/mm	DP41-S, DP25B-S			
LD400-2.5	±2.5 mm (0.10")	75 mV/V/mm	DP41-S, DP25B-S			
LD400-5	±5.0 mm (0.20")	54 mV/V/mm	DP41-S, DP25B-S			

Ordering Example: LD400-5, stroke of ±5 mm.

MINIATURE DC DISPLACEMENT TRANSDUCERS



	LINEAR STROKE	DIMENSIONS*: mm (inch)		WEIGHT g (oz)		
MODEL NO.	mm (inch)	Α	В	BODY	CORE (GUIDED)	
LD400-1	±1.0 (0.04)	21.5 (0.85)	37 (1.46)	26 (1.02)	1.0 (0.04)	
LD400-2.5	±2.5 (0.10)	21.5 (0.85)	37 (1.46)	26 (1.02)	1.0 (0.04)	
LD400-5	±5.0 (0.20)	20.5 (0.81)	43 (1.69)	30 (1.18)	1.2 (0.04)	

* At electrical zero.

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FOR QUALITY CONTROL OR AUTOMATION TOOLING



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



DISPLACEMENT

SPECIFICATIONS: MECHANICAL

	LINEAR STROKE	SPRING		TEMPERATURE	TEMP CO	EFFICIENTS	
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: ELECTRICAL ** Output nulls in mechanical middle							chanical middle.

SPECIFICATIONS: ELECTRICAL

MODEL NO.	CURRENT	INPUT VOLTAGE	OUTPUT RIPPLE (TYPICAL)	ТІМЕ	FREQUENCY RESPONSE	SENSITIVITY [†]	CABLE
LD500-1	10 mA	10 to 24 Vdc	<1% FS	1.5 ms	100 Hz for - 3 dB	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	100 Hz for - 3 dB	78 mV/V/mm (1.98 mV/V/0.001 inch)	2 m (6') long, PVC 5-wire shielded
LD500-5	13 mA	10 to 24 Vdc	<1% FS	1.5 ms	100 Hz for - 3 dB	56 mV/V/mm (1.98 mV/V/0.001 inch)	2 m (6') long, PVC 5-wire shielded

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ø2.20 (0.09)

max

11.00

(0.43)

To Order

MODEL NO.

±5 Vdc

LD620-2.5

LD620-7.5

LD620-10

LD620-15

LD620-25

LD620-50

LD620-75

LD620-100

LD620-150

with ±5 Vdc output.

ACCESSORIES

MODEL NO.

LD-UJOINT-KIT

LD-TIP

LD620-5

25.00

(1.0)

RANGE

mm (inch)

±2.5 (±0.1)

±5 (±0.2)

±7.5 (±0.3)

 $\pm 10 (\pm 0.4)$

±15 (±0.6)

±25 (±1.0)

±50 (±2.0)

±75 (±3.0)

±100 (±3.9)

±150 (±5.9)

These transducers are accurate and reliable, especially in wet and corrosive conditions.

Output options are either ±5 Vdc (LD620) or 0 to 10 Vdc (LD621). An unusually large bore-to-core clearance is maintained throughout the range. This makes installation easier and helps prevent misalignment.

SPECIFICATIONS

Linearity: <0.2% FSO Excitation Voltage: 10 to 30 Vdc @ 25 mA maximum Output: LD620, ±5 Vdc; LD621, 0 to 10 Vdc Output Ripple: 0.2% FSO Bandwidth: 500 Hz (-3 dB) Storage Temp: -20 to 85°C (-4 to 185°F) Operating Temp: 0 to 65°C (32 to 149°F) Sealing: IP67 Vibration (Sinusoidal Frequency): 10 to 50 Hz: 1 to 10 g rms linear amplitude 50 Hz to 1 kHz: 10 g rms amplitude 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

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U-joint retro fit kit

Tip adaptor/ball tip

DESCRIPTION

"A" body length

(±0.02)

MODEL NO.

0 to 10 Vdc

LD621-5

LD621-10

LD621-15

LD621-20

LD621-30

LD621-50

LD621-100

LD621-150

LD621-200

LD621-300

RANGE

mm (inch)

0 to 5 (0 to 0.2)

0 to 10 (0 to 0.4)

0 to 15 (0 to 0.6)

0 to 20 (0 to 0.8)

0 to 30 (0 to 1.2)

0 to 50 (0 to 2.0)

0 to 100 (0 to 3.9)

0 to 150 (0 to 5.9)

0 to 200 (7.9)

0 to 300 (11.8)

Ordering Example: LD620-2.5, DC displacement sensor with range of ±2.5 mm (±0.1 in)

(0.67)

"A" DIM

mm (inch)

94.0 (3.7)

113.5 (4.5)

120.7 (4.8)

135.0 (5.3)

149.4 (5.9)

170.9 (6.7)

228.5 (9.0)

278.7 (11.0)

336.2 (13.2)

450.9 (17.8)

336.2 (13.2)

450.9 (17.8)

M6 x 1.0-6g

full thread

ø19.00

"B" DIM

mm (inch)

35.3 (1.4)

46.3 (1.8)

50.3 (2.0)

61.3 (2.4)

79.3 (3.1)

102.3 (4.0)

160.3 (6.3)

231.3 (9.1)

291.2 (11.5)

457.3 (18.0)

291.2 (11.5)

457.3 (18.0)

18.80 (0.75 0.71)

A TO OD A OIITDIIT IVNT Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it DISPLACEMENT TRANSMITTERS



- Less Than 0.2% Linearity
- ✓ 5 to 300 mm Travel Lengths Available
- 4 to 20 mA or 20 to 4 mA Versions Available
- Rugged Stainless Steel Body Construction
- Guided Core with Removable Spring
- IP67 Environmental Rating

The LD630 Series current output displacement transmitters have improved IP67-rated sealing, coupled with polymer guides with rigid carriers. These transmitters are accurate and reliable, especially in wet and corrosive conditions. Output options are either directacting 4 to 20 mA or reverse-acting 20 to 4 mA. The direct-acting model will have 4 mA output when the guided core is fully out, and the output will increase to 20 mA when fully in.

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 (32 to 149°F) Vibration (Sinusoidal Frequency): 10 to 50 Hz: 1 to 10 g rms linear amplitude 50 Hz to 1 kHz: 10 g rms amplitude Shock: Drop Testing: 1 m (3') onto hard surface Topple Testing: 10 times each end onto hard surface Cable: PFA, 2 m (6') long Core Material: Nickel-iron

LD630-50, shown smaller than actual size.





To Order			
MODEL NO.	RANGE: mm (inch)	"A" DIM mm (inch)	"B" DIM mm (inch)
LD630-5	0 to 5 (0 to 0.2)	94.0 (3.7)	35.3 (1.4)
LD630-10	0 to 10 (0 to 0.4)	113.5 (4.5)	46.3 (1.8)
LD630-15	0 to 15 (0 to 0.6)	120.7 (4.8)	50.3 (2.0)
LD630-20	0 to 20 (0 to 0.8)	135.0 (5.3)	61.3 (2.4)
LD630-30	0 to 30 (0 to 1.2)	149.4 (5.9)	79.3 (3.1)
LD630-50	0 to 50 (0 to 2.0)	170.9 (6.7)	102.3 (4.0)
LD630-100	0 to 100 (0 to 3.9)	228.5 (9.0)	160.3 (6.3)
LD630-150	0 to 150 (0 to 5.9)	278.7 (11.0)	231.3 (9.1)
LD630-200	0 to 200 (0 to 7.9)	336.2 (13.2)	291.2 (11.5)
LD630-300	0 to 300 (0 to 11.8)	450.9 (17.8)	457.3 (18.0)

To order reverse-acting version (20 to 4 mA), add suffix "-**R**" to model number, no additional charge.

Ordering Example: LD630-10-R, 0 to 10 mm (0 to 0.4") displacement transmitter with reverse 20 to 4 mA output.

ACCESSORIES

MODEL NO.	DESCRIPTION
LD-TIP	Tip adaptor/ball tip
LD-UJOINT-KIT	U-joint retro fit kit
0.0	

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DISPLACEMENT SENSORS 12, 18 AND 30 mm HOUSINGS



- Dirt, and Oils—Ideal for **Industrial Applications**
- Compact Design
- IP67 Protection Rating

Non-contact linear sensors have an analog output that is proportional to the damping target distance. Their compact yet sturdy design makes them suitable for industrial, robotics, and laboratory use.

These sensors use inductive technology, which means they can sense any metal target. The sensing distance, however, is influenced by the metal target. Ranges are calibrated using a standard square target. The target is mild steel (Fe 360), 1 mm (0.04") thick. The side lengths are the larger of either the sensor's face diaphragm or 3 times the sensing distance.

Sensing distances are influenced by metals other than mild steel. The "Correction Factors" chart, shown below, shows the reduction that occurs when brass or other target metals are used. For example, if the target were brass, the LD701-1/2 would sense 0.5 to 1 mm (0.02 to 0.04").

The voltage output generated is directly linear to the distance being measured. The output can be read by panel meters, recorders, computer boards, or data loggers, all of which are available from OMEGA[®].

SPECIFICATIONS

Excitation: 14 to 30 Vdc @ 20 mA; unregulated, reverse polarity and short circuit protected Output: 1 to 9 Vdc Output Load: 20 mA maximum

Repeatability: 0.01 mm (0.0004") **Compensated Temperature:** 0 to 60°C (32 to 140°F) Total Thermal Effects: 1µm/°C/mm Housing: Nickel-plated brass Electrical Connection: 1.8 m (6'), 3-conductor, 22 AWG pigtail leads (20 AWG for 30 mm)

CORRECTION FACTORS		
MATERIAL	APPROX.	
Mild steel	1.0	
Stainless steel	0.75	
Brass	0.50	
Aluminum	0.40	
Copper	0.35	

NON-CONTACT LINEAR DISPLACEMENT SENSORS



Dimensions: mm (inch)

MODEL NO.	THREAD A	NUT B	С	D
LD701-1/2	M12x1	SW17	51 (2.01)	10 (0.39)
LD701-2/5	M18x1	SW24	65 (2.55)	10 (0.39)
LD701-5/10	M30x1.5	SW36	60 (2.36)	10 (0.39)

Wiring: brown +exc; black +out; blue common.

To Order			
MODEL	LD701-1/2	LD701-2/5	LD701-5/10
RANGE mm (inch)	1 to 2 (0.04 to 0.08)	2 to 5 (0.08 to 0.19)	5 to 10 (0.19 to 0.39)
REPEATABILITY	±10 μm (0.4 μin)	±10 μm (0.4 μin)	±10 μm (0.4 μin)
LINEARITY	±4%	±2%	±4%
SWITCHING FREQUENCY (-3 dB)	1000 Hz	1000 Hz	500 Hz
HOUSING SIZE	12 mm (0.47")	18 mm (0.71")	30 mm (1.2")
COMPATIBLE METERS	DP25B-E	E, DP41-E, DP3002-E	, DP24-E

ACCESSORIES

MODEL NO.	DESCRIPTION
MBL-8/12	Mounting bracket for LD701-1/2
MBL-18/30	Mounting bracket for LD701-2/5 or LD701-5/10
Comes complete with operator's manual.	

Ordering Example: LD701-1/2, non-contact displacement sensor with 1 to 2 mm (0.04 to 0.08") range.



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Transducers for **Position Sensing**

0 to 10V Output with 12 to 30V Input 4 to 20 mA (3-Wire) Output with 18 to 30V Input

LDI-119 Series

LDI-119-150-A010A shown smaller than actual size.



- Low Cost, Robust Construction
- Contactless Operation Prevents Wearout from Dithering or Cycling
- Excellent Stroke-to-Length Ratio
- 19 mm (0.75") Diameter Anodized Aluminum Housing Sealed to IP67
- Wide Choice of Range: 25 to 200 mm (1 to 8") Full Scale
- High Accuracy with Low Linearity Error
- Radial Cable Exit with Swivel Rod Eye Ends
- Designed to Operate Under Adverse Temperature, Vibration, Shock, and **Humidity Conditions**

The LDI-119 Series LVIT (Linear Variable Inductive Transducer) position sensors from OMEGA® are contactless devices designed for factory automation and a variety of industrial and commercial applications such as motor sport vehicles, automotive testing, solar cell positioners, wind turbine prop pitch and brakes, and packing equipment. With their compact device, superior performance, and excellent stroke-to-length ratio, the LDI-119 sensors are ideal for both industrial testing, laboratories, and OEM applications.

LDI-119 sensors are offered in 6 full scale ranges from 25 to 200 mm (1 to 8"). Operating from a variety of DC voltages, these sensors offer a choice of outputs and all include the field programmability calibration feature. LDI-119 products come with radial exiting cable and two swivel rod eye ends for easy installation.

The LDI series also include a larger body version, the LDI-127, for those applications needing a heavier duty unit.

Specifications

Analog I/Os:

0 to 10V output with 12 to 30V input, 35 mA max; 4 to 20 mA (3-wire) output with 18 to 30V input, 60 mA max 75° C (167°F max)

Measuring Range: 25 to 200 mm (1 to 8") full scale Linearity Error: ±0.15% of Full Scale Output (FSO) typical, ±0.25% max

Resolution: 0.025% of FS

Update Rate: 300 Hz nominal

Operating Temperature: -20 to 85°C (-4 to 185°F) Temperature Coefficient: 0.015% of FS/degree°C Vibration: 5 to 20 Hz, 0.5" p-p; 20 to 2000 Hz, 4.2 g p-p Shock: 1000 g, 11 ms

Terminations: IEC IP67

Humidity: 95% RH, non-condensing

Housing Material: Aluminum Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



Wiring Table		
Function	Cable Code	
+ Power Input	Red	
Ground	Black	
Analog Output	Green	
Field Programmability	White	

Unit Length Table, Dimensions: mm (in)		
Length "A"		
89 (3.5)		
114 (4.5)		
140 (5.5)		
165 (6.5)		
216 (8.5)		
267 (10.5)		

To Order		
Model No.	Description	
LDI-119-025-A010A	Linear sensor, 25 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output	
LDI-119-050-A010A	Linear sensor, 50 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output	
LDI-119-075-A010A	Linear sensor, 75 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output	
LDI-119-100-A010A	Linear sensor, 100 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output	
LDI-119-150-A010A	Linear sensor, 150 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output	
LDI-119-200-A010A	Linear sensor, 200 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output	
LDI-119-025-A020A	Linear sensor, 25 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output	
LDI-119-050-A020A	Linear sensor, 50 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output	
LDI-119-075-A020A	Linear sensor, 75 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output	
LDI-119-100-A020A	Linear sensor, 100 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output	
LDI-119-150-A020A	Linear sensor, 150 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output	
LDI-119-200-A020A	Linear sensor, 200 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output	

Ordering Examples: LDI-119-150-A010A, 150 mm range, 19 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output, aluminum housing. LDI-119-025-A020A, 25 mm range, 19 mm housing, radial cable, rodeye ends, 4 to 20 mA output, aluminum housing. Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

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Transducers for Position Sensing (Heavy-Duty)

0 to 10V Output with 12 to 30V Input 4 to 20 mA (3-Wire) Output with 18 to 30V Input

LDI-127 and LDI-128 Series



Heavy-Duty, Long Lasting, **Contactless Device**

- Excellent Stroke-to-Length Ratio
- 27 mm (1.05") Diameter Anodized Aluminum Housing Sealed to IP67
- Wide Choice of Range: 25 to 450 mm (1 to 18") Full Scale
- High Accuracy with Low Linearity Error
- Radial Cable Exit with Swivel Rod Eye Ends
- Designed to Operate Under Adverse Temperature, Vibration, Shock, and **Humidity Conditions**

LDI-127-150-A010A shown smaller than actual size.

The LDI-127/LDI-128 Series LVIT (Linear Variable Inductive Transducer) position sensors from Omega are contactles's devices designed for factory automation and a variety of industrial and commercial applications such as solar cell positioners, wind turbine prop pitch and brakes, chute or gate positions on off-road or agri-vehicles and packing equipment.

With their compact device, superior performance, and excellent stroke-to-length ratio, the LDI-127/ LDI-128 sensors are ideal for both industrial testing, laboratories, and in-plant or mobile equipment OEM applications.

LDI-127/LDI-128 sensors are offered in 10 full scale ranges from 25 to 450 mm (1 to 18"). Operating from a variety of DC voltages, these sensors offer a choice of outputs and all include the Field Programmability calibration feature. LDI-127/LDI-128 models come with radial exiting cable and two swivel rod eye ends for easy installation.

The LDI series also includes a smaller body version, the LDI-119, for those applications not requiring a heavy-duty unit.

Specifications

Analog I/Os:

0 to 10V output with 12 to 30V input, 35 mA max; 4 to 20 mA (3-wire) output with 18 to 30V input, 60 mA max 75°C (167°F max)

Measuring Range: 25 to 450 mm (1 to 18") full scale Linearity Error: ±0.15% of Full Scale Output (FSO) typical, ±0.25% max

Resolution: 0.025% of FS

Update Rate: 300 Hz nominal

Operating Temperature: -20 to 85°C (-4 to 185°F)

Temperature Coefficient: 0.015% of FS/degree°C

Vibration: 5 to 20 Hz, 0.5" p-p; 20 to 2000 Hz, 4.2 g p-p Shock: 1000 g, 11 ms

Terminations: IEC IP67

Humidity: 95% RH, non-condensing

Housing Material: Aluminum



Wiring Table		
Function	Cable Code	
+ Power Input	Red	
Ground	Black	
Analog Output	Green	
Field Programmability	White	

The LDI models come with radial exiting cable and two swivel rod eye ends for easy installation.

Unit Length Table, Dimensions: mm (in)		
Linear Range	Length "A"	
25 (1)	114.3 (4.5)	
50 (2)	139.7 (5.5)	
100 (4)	190.5 (7.5)	
150 (6)	241.3 (9.5)	
200 (8)	292.1 (11.5)	
250 (10)	342.9 (13.5)	
300 (12)	393.7 (15.5)	
350 (14)	444.5 (17.5)	
400 (16)	495.3 (19.5)	
450 (18)	546.1 (21.5)	

To Order

Model No.	Description
LDI-127-025-A010A	Linear Sensor, 25 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-127-050-A010A	Linear Sensor, 50 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-127-100-A010A	Linear Sensor, 100 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-127-150-A010A	Linear Sensor, 150 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-127-200-A010A	Linear Sensor, 200 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-128-250-A010A	Linear Sensor, 250 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-128-300-A010A	Linear Sensor, 300 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-128-350-A010A	Linear Sensor, 350 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-128-400-A010A	Linear Sensor, 400 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-128-450-A010A	Linear Sensor, 450 mm range, 27 mm housing, 0 to 10 Vdc output
LDI-127-025-A020A	Linear Sensor, 25 mm range, 27 mm housing, 4 to 20 mA output
LDI-127-050-A020A	Linear Sensor, 50 mm range, 27 mm housing, 4 to 20 mA output
LDI-127-100-A020A	Linear Sensor, 100 mm range, 27 mm housing, 4 to 20 mA output
LDI-127-150-A020A	Linear Sensor, 150 mm range, 27 mm housing, 4 to 20 mA output
LDI-127-200-A020A	Linear Sensor, 200 mm range, 27 mm housing, 4 to 20 mA output
LDI-128-250-A020A	Linear Sensor, 250 mm range, 27 mm housing, 4 to 20 mA output
LDI-128-300-A020A	Linear Sensor, 300 mm range, 27 mm housing, 4 to 20 mA output
LDI-128-350-A020A	Linear Sensor, 350 mm range, 27 mm housing, 4 to 20 mA output
LDI-128-400-A020A	Linear Sensor, 400 mm range, 27 mm housing, 4 to 20 mA output
LDI-128-450-A020A	Linear Sensor, 450 mm range, 27 mm housing, 4 to 20 mA output

Comes complete with radial exiting cable and two swivel rod eye ends.

Ordering Example: LDI-127-100-A010A, 100 mm range, 27 mm housing, radial cable, rodeye ends, 0 to 10 Vdc output, aluminum housing. Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

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TRANSMITTERS WITH EXCITATION WORKS WITH AC LVDT TRANSDUCERS

LVDT Signal Conditioner Loop Powered





Wide Input Range of 30 to 530 mV/V

WARRANTY

- Rugged Sealed Housing
- ✓ 2-Wire, 4 to 20 mA Signal for Remote Locations
- ✓ 0.02% of Reading Accuracy
- Powers AC LVDTs and **Converts Signal to** Standard 4 to 20 mA Signal

The LDX-2 linear displacement transmitter is a 2-wire, 4 to 20 mA conditioner for AC LVDT transducers. It is designed for use where long transmission distances are required before the signal can interface with a controller or meter. A feature of 2-wire operation is its low susceptibility to noise and cable resistance, ideal for industrial environments.

Two-wire operation enables both power and signal to use the same pair of wires. The position of the transducer is indicated by the amount of current, from 4 to 20 mA full scale. If a cable break occurs, zero current is indicated, thereby showing a fault.

The LDX-2 is housed in an ABS impact-resistant plastic case with 2 water-resistant ports for the transducer cable and supply cable. The box is sealed to NEMA 12 (IP65) standards and is supplied with mounting nuts for a DIN 46277-1 rail, or it can be bolted to any surface without affecting the seal.

LDX-2, shown smaller than actual size.



SPECIFICATIONS ELECTRICAL

Power Supply: 13 to 48 Vdc, up to 30 mA

Supply Protection: Reverse polarity protected

Transducer Drive: 0.9 Vrms @ 5 kHz nominal, 13 kHz switchable

Oscillator Protection: Open and short circuit protected

Transducer Sensitivity Range: 30 to 530 mV/V in 2 coarse gain positions Range of Gain Control: 3.5 to 1 switched, 5 to 1 adjustable Range of Zero Control: Up to 100% on max gain Output Current: 4 to 20 mA 2-wire or 0 to 20 mA 3-wire Output Impedance: Effectively infinite Output Protection: Open and short circuit protected

Output Ripple: <50 µA p-p @ 10 kHz

Output Filter: Cutoff frequency -3 dB @ 25 Hz second-order linearity: <0.02% **Operating Temperature Range:** 0 to 70°C (32 to 158°F)

Storage Temperature Range: -40 to 80°C (-40 to 176°F)

Temperature Coefficient: Zero: Better than 0.01% FS/°C Gain: Better than 0.01% FS/°C Long-Term Stability:

Zero: 0.2%/year typical Gain: 0.3%/year typical

Effect of Supply Change: Negligible Terminations: Screw terminals: access through 2 cable ports for wires 1 to 5 mm (0.04 to 0.2") diameter MECHANICAL Weight: 220 g (7.7 oz) Mounting: Through holes in base by 2 screws and nuts; can be mounted to DIN 46277-1 rail Accessories: 2 fixing screws and nuts

Environment: Sealed to NEMA 12 (IP65) Dimensions: 120.65 H x 80 W x 54.86 mm D (4.75 x 3.14 x 2.16")

To Order Visit omega.com/ldx-2 for Pricing and Details		
MODEL NO.	DESCRIPTION	
LDX-2	Loop-powered signal conditioner for AC LVDTs	

Comes complete with operator's manual.

Ordering Example: LDX-2, loop-powered signal conditioner for AC LVDTs.

AC_DOM/EDED CICNIAL CONDITIONEDC Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it FOR AC LVDTS PROVIDE TRANSDUCER EXCITATION AND DC VOLTAGE OR CURRENT OUTPUT OF OMEGA DP25B-E meter. LDX-3A, shown smaller than actual size. LDX-3A omega.co **1 YEAR** DEOMEGA WARRANT LDX-3A TRANSDUCER CONDITIONER Made in England P.O. Box 4047 Stamford, CT USA 06907-0047 www.omegamanual.info LD320 sensor. Works Well with LD200 and LD300 Series Transducers Oscillator/Demodulator ±20mA O/P Provides 0.05% FS GROUND Ο ±5V O/P Linearity

- Selectable Outputs of ±5 V or ±20 mÅ
- Interfaces with Standard Laboratory Instruments
- Adjustable Zero, Span, and Phase Controls
- Rugged Metal Case
- Transducer Drive: 3 Vrms. Selectable at 2.5 or 5 kHz

The LDX-3A is a compact oscillator/ demodulator unit with adjustable span, zero, and phase controls for use with any OMEGA® (as well as most other manufacturers') AC LVDT transducers. The device is housed in a die-cast aluminum box that provides a high degree of mechanical and environmental protection. The LDX-3A incorporates its own regulation for operation from AC power of 120V. A 2.7 m (9') power cable is standard.

The unit can drive outputs of 0 to ± 5 V into 10 k Ω , or ± 20 mA into 100 Ω max. This, together with a 10:1 range of span controls, makes the LDX-3A a versatile singlechannel conditioner for a wide range of transducers.



SPECIFICATIONS **MECHANICAL**

Weight: 400 g (14 oz) Mounting: 2 fixing straps and screws Accessories: Connector and mounting hardware included Dimensions: 130 H x 96 W x 35 mm D (5.1 x 3.8 x 1.4")

ELECTRICAL

Power Supply: 120/250 Vac, 50 to 60 Hz Transducer Drive: 3 Vrms at 2.5 or 5 kHz @ 20 mA Loading: 4 W max Fuse Rating: 63 mA slow blow Oscillator Protection: Open and short circuit protected

Range of Zero Control: 0 to 100% adjustable

Output Voltage: ± 5 V into 10 k Ω min Output Current: ±20 mA into 100 Ω max

DISPLACEMENT

Output Protection: Open and short circuit protected

Output Ripple: 10 mV p-p at 10 kHz Output Filter: Second-order low pass at 250 Hz or 110 Hz

Linearity: 0.05% FS

Temp Range: 0 to 60°C (32 to 140°F) Temp Coefficient:

Zero: 0.02% FS/°C (0.011% FS/°F) **Span:** 0.02%FS/°C (0.011% FS/°F) Terminations: 5-pin DIN connector

To Order Visit omega.com/ldx-3 for Pricing and Details MODEL NO. DESCRIPTION LDX-3A AC-powered signal conditioner for AC LVDTs Comes complete with power cord and operator's manual.

Ordering Example: LDX-3A, signal conditioner.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it PROVIDES TRANSDUCER EXCITATION AND SELECTABLE ANALOG OUTPUTS; WORKS WITH LD320 SERIES TRANSDUCERS



- Operates on 10 to 30 Vdc
 +5V, ±10V, or 20 mA Selectable Outputs
- Adjustable Zero and Span
 High-Accuracy Oscillator/
- Demodulator Circuits Provide 3V @ 5 kHz

The LDX-4 is a DC-powered signal conditioning amplifier and power supply for AC LVDTs. Its compact, rugged case can withstand industrial installations and protect laboratory-grade electronics. Complete zero and span adjustments allow use with any LVDT with an output between 45 and 450 mV/V full scale. Selectable outputs of \pm 5V or \pm 10V interface with recorders, displays, and other instruments. For the \pm 5V output range, a second 0 to 20 mA signal can be used to retransmit the signal over long distances.

SPECIFICATIONS

Supply Voltage: 10 to 30 Vdc Supply Current (Voltage Output): 140 mA max with 10 Vdc supply voltage; 60 mA max with 30 Vdc supply voltage

Supply Current (Current Output): 180 mA max with 10 Vdc supply voltage; 70 mA max with 30 Vdc supply voltage

Noise on Power Supply (Typical): 20 mV p-p @ 100 kHz Input Protection: Overvoltage, reverse connection Transducer Energization:

3 Vrms @ 5 kHz

Transducer Range: 45 to 450 mV/V full scale

Output Voltage (Selectable): ±5 Vdc or ±10 Vdc full scale

DISPLACEMENT

Load Resistance: 1 k Ω minimum Analog Output Current: 20 mA full scale into 1500 Ω maximum (only with 5 V range selected)

Offset Range: 0 to 100% Gain Temperature Coefficient:

<200 ppm/°C

Output Temperature Coefficient: <200 ppm/°C output Noise: <20 mV p-p @ 10 to 100 kHz Non-Linearity: <0.1% BSL Temperature Range: 0 to 60°C (-18 to 140°F)

Weight (Approx.): 300 g (11 oz) Dimensions: 40 W x 65 H x 120 mm L (1.57 x 2.56 x 4.72")

To Order *Visit omega.com/ldx-4 for Pricing and Details* MODEL NO. DESCRIPTION

LDX-4 10 to 30 Vdc powered signal conditioner for AC LVDTs

Comes complete with operator's manual.

signal over long distances. Ordering Example: LDX-4, 10 to 30 Vdc powered signal conditioner for AC LVDTs. Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

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Operates on 10 to 30 Vdc Selectable Output Compatible with AC LVDTs

The LDX-D is a DC-powered conditioning module that can accept a wide range of analog inductive transducer types owing to its wide input gain. The signal polarity, span, and offset are adjustable. Output is selectable: ±10 Vdc voltage or ±20 mA current.

The housing is a standard DIN rail enclosure that can clip directly to a 35 mm top-hat rail (TS35 EN50022).

Transducers are connected via the screw terminals on the front of the LDX-D. Internal links and front-panel fine-adjustment potentiometers facilitate setup.

By linking 2 LDX-D modules, users can perform some analog arithmetic functions, such as A + B, A - B, (A + B)/2 and (A - B)/2.

SPECIFICATIONS

Power Requirement: 10 to 30 Vdc Supply Current: Voltage Range: 140 mA @ 10 Vdc, 60 mà @ 30 Vdc

Current Range: 160 mA @ 10 Vdc, 70 mA @ 30 Vdc

Transducer Excitation: Primary Voltage: 3 Vrms nominal Primary Frequency (kHz): 5-, 10or 13-link selectable

Signal Input:

Input Range: 55 to 5000 mV Input Load Resistance: 100 kΩ Signal Output:

Voltage Output: Up to ±10 Vdc Current Output: Up to 20 mA into 150 Ω load

Output Ripple: <1 mVrms





Output Offset: Up to 100% **Temp Coefficient Gain:** <0.01% FSO/°C **Temp Coefficient Offset:** <0.01% FSO/°C Warm-Up: 15 minutes recommended Linearity: <0.1% FSO Bandwidth (-3 dB): 500 Hz or 1 kHz, link selectable

ENVIRONMENTAL

Operating Temp: 0 to 60°C (32 to 140°F) Storage Temp: -20 to 85°C (-4 to 185°F) **MECHANICAL** Transducer: Screw terminals Power Supply: Screw terminals Output Signal: Screw terminals Weight: 120 g (4.2 oz) Case Material: Green polyamide

To Order Visit omega.com/ldxd for Pricing and Details									
MODEL NO.	DESCRIPTION								

LDX-D DC-powered signal conditioner for AC LVDT (DIN rail) Comes complete with operator's manual.

Ordering Example: LDX-D, DC-powered signal conditioner for AC LVDTs (DIN rail).

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FOR DISPLACEMENT MEASUREMENT

DP41-E 150 mm to 1.2 m (6 to 48") Ranges LP801-150 shown smaller than actual size. LP801 Series Incremental Sensitivity: 0.0013 mm (0.00005") Power Rating: 0.75 W/stroke inch Temp. Range: -65 to 105°C (-85 to 221°F) Operating Force: 450 g (1 lb) max Shaft: 6 mm (0.236") diameter with 1/4-28 threaded-end adaptor DISPLACEMENT Rugged Construction and Shaft Seals Weight: 0.36 to 2.2 kg (0.8 to 4.9 lb) for Protection in Factory Environments Life: 100 million operations up to 300 mm (12") strokederated proportionally for longer units [standard rate of travel Precious-Metal Wipers Ensure High 50 mm/s (2"/s)] Performance and Low Noise Plastic Film Element Reduces Wear for **Dimensions: mm (inch)** Extremely Long Life SHAFT EXTENSION, FOR USE w/ 6.00 mm (0.24") SHAFT 1/4 - 28 NF-2A THREAD The OMEGA® LP801 Series linear potentiometers 7/16" ACROSS FLATS TYPICAL can measure linear position or displacement up to 1/4" ACBOSS FLATS FOR 1.2 m (48") STROKE) 1.2 m (48") in a wide variety of manufacturing and '16' process applications. With their long life, front and rear bearings, anodized extruded aluminum housings, stainless steel shafts, and precious-metal wipers _34.5 and contacts, these devices are suitable for harsh (1.88)factory environments. Based on a conductive plastic 19.0 (0.75) film element, the LP801 provides high resolution and 15.9 (0.62) (0.50)absolute position measurement without using external - 6.4 signal conditioners. (0.25) 31.8 (1.25) SPECIFICATIONS

Total Resistance: 5000 $\Omega \pm 20\%$ Linearity: ±1% FS Hysteresis: ±0.025 mm (0.001") Repeatability: ±0.012 mm (0.0005")

(0.62) 3.18 15.9 (1.68)25 (0.125)(1.0) 21.3 (0.84) 3.96 x 7.93 SLOT TYPICAL (2.0)(0.156 x 0.312)

VIEW A-A

MOUNTING FEET (2)

To Order Visit omega.com/lp801 for Pricing and Details											
MODEL NO.	ELECTRICAL TRAVEL		MECHANICAL TRAVEL		"X" DIMENSION (NOMINAL)		"Y" DIMENSION (NOMINAL)		COMPATIBLE		
	mm	inch	mm	inch	mm	inch	mm	inch	METERS		
LP801-150	152	6.0	155	6.10	233	9.19	127	5.00	DP25B-E, DP41-E		
LP801-300	305	12.0	307	12.10	380	15.19	279	11.00	DP25B-E, DP41-E		
LP801-450	457	18.0	460	18.12	533	21.19	432	17.00	DP25B-E, DP41-E		
LP801-600	610	24.0	613	24.13	685	27.19	584	23.00	DP25B-E, DP41-E		
LP801-750	762	30.0	765	30.13	838	33.19	737	29.00	DP25B-E, DP41-E		
LP801-900	914	36.0	918	36.13	990	39.19	889	35.00	DP25B-E, DP41-E		
LP801-1200	1219	48.0	1224	48.18	1295	51.19	1194	47.00	DP25B-E, DP41-E		

Comes complete with operator's manual.

Ordering Example: LP801-150, 152 mm (6") stroke linear potentiometer.