# LX-PA SERIES RATIOMETRIC VOLTAGE

The **UniMeasure LX-PA Series** linear position transducer with analog output is a low cost, compact alternative for use in light to moderate duty applications in dry environments. The plastic bodied device is ideal for high volume OEM situations where cost is a major consideration and in applications where small size or low weight are of paramount importance. Model LX-PA is available in eleven different measurement ranges with a maximum range of 50" (1250 mm). The output is voltage from a potentiometric voltage divider circuit. In the basic configuration, the electrical connections are made directly to the contacts on the potentiometer of the unit. Electrical cable and a cover for the potentiometer are optionally available. Standard potentiometer value is 1K ohm with optional values of 5K and 10K ohm available.

# Optional Cover

# **SPECIFICATIONS**

## **GENERAL**

Dimensional Information ....... See Supplemental Data<sup>[1]</sup>

Life

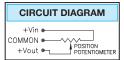
ENVIRONMENTAL

Operating Temperature .....-25°C to 75°C Storage Temperature....-50°C to 80°C

Operating Humidity ......95 R.H. max. non-condensing

#### **ELECTRICAL**

Excitation Voltage......30 Volts max. AC or DC



# **TABLE 1**

MODEL	RANGE		NOMINAL OUTPUT[2] AT 1 VDC INPUT VOLTAGE		NOMINAL WIRE ROPE TENSION	
	(inch)	(mm)	(mV/in)	(mV/mm)	(oz)	(N)
LX-PA-2	2	50	469	18.5	16	4.4
LX-PA-2.8	2.8	70	341	13.4	10	2.8
LX-PA-3.8	3.8	96	258	10.1	8	2.2
LX-PA-4.7	4.7	120	207	8.1	6	1.7
LX-PA-10	10	250	88	3.5	16	4.4
LX-PA-15	15	380	64	2.5	10	2.8
LX-PA-20	20	500	49	1.9	8	2.2
LX-PA-25	25	625	39	1.5	6	1.7
LX-PA-30	30	750	32	1.3	10	2.8
LX-PA-40	40	1000	24	1.0	8	2.2
LX-PA-50	50	1250	20	0.8	6	1.7
ECOTNOTES TO SPECIFICATIONS						

FOOTNOTES TO SPECIFICATIONS

**COVER & ELECTRICAL CONNECTION LOCATION** 

- Supplemental Data section located at end of LX Series pages.
   To Calculate nominal output in application, multiply nominal ouput shown by
- Io Calculate nominal output in application, multiply nominal ouput shown by excitation voltage of application.

# **MODEL NUMBER CONFIGURATION**

# LX-PA-









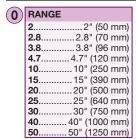


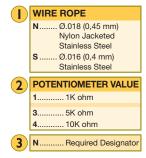


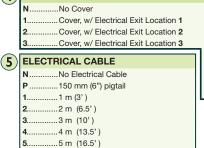
Basic Configuration

(FOR ALL RANGES)

LX-PA-50-N1N-NNN







.Cable to Cable Connector w/ Mating Connector, See FIG A .Cable to Cable Connector w/ NO Mating Connector, See FIG B

For option "K", electrical cable with mating

connector may be ordered separately as item number 10248-xM, where "x" is the required

1. "C" and "K" options only apply when electrica

2. Cable to cable connector does not connect

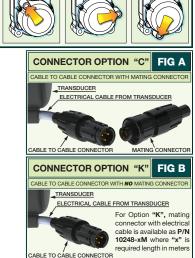
(6) CONNECTOR

C.....

length in meters.

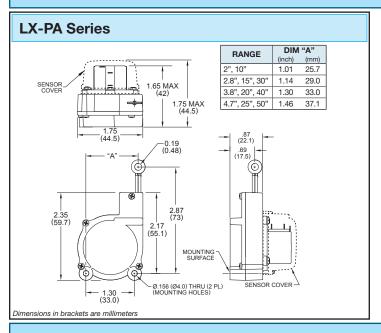
cable is selected.

N.....No Connector





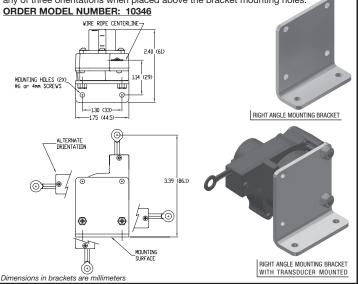
# **DIMENSIONAL INFORMATION**



# **ACCESSORIES**

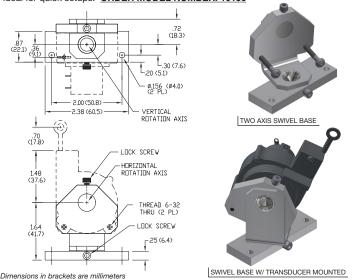
# 10346 - RIGHT ANGLE MOUNTING BRACKET

The Right Angle Mounting Bracket serves as a base for mounting the LX transducer perpendicular to a surface. The transducer may be mounted in any of four different wire rope exit orientations when mounted on the outside of the bracket (see figure) or any of three orientations when placed above the bracket mounting holes.



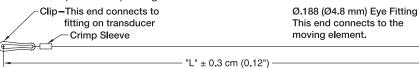
## 10156 - TWO AXIS SWIVEL BASE

With a capability of 360° rotation about the vertical axis and 245° rotation about the horizontal axis, the 10156 Two Axis Swivel Base allows easy setup of the LX-PA or the LX-EP transducer. The axes may be locked in place after the transducer is oriented. Ideal for quick setups. ORDER MODEL NUMBER: 10156



# 10067 - AUXILIARY WIRE ROPE EXTENSION KIT

The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from the measurement point. The clip on the extension attaches to the eye fitting on the transducer. The eye fitting on the opposite end, which is identical to the fitting on the transducer, mounts to the moving element. The extension kit is also available with the clip end unterminated for situations where it is more convenient to size the wire rope length during installation. Clip and crimp fitting are included with the unterminated version.



10067- \_ -CM- \_

1 DIMENSION "L"

Specify Dimension "L" in centimeters to the nearest whole centimeter

NOTES: 1. 1 cm = 0.394", 1 inch = 2.54 cm 2. Shortest length "L" is 5 cm (approximately 2")

2 UNTERMINATED CLIP END