

LX-PA

POSITION TRANSDUCER

INSTALLATION GUIDE

SPECIFICATIONS

Model LX-PA is
RoHS Compliant

Input Impedance 1000 ohms $\pm 10\%$
 Excitation Voltage..... 25 Volts max. AC or DC
 Output Impedance 0 to 1000 ohms

Linearity:

Ranges to 4.7" $\pm 1.0\%$ Full Scale
 10" to 25" range..... $\pm 0.5\%$ Full Scale
 30" to 50" range..... $\pm 0.25\%$ Full Scale
 Operating Temperature..... -15°C to 60°C

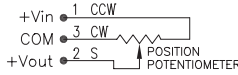
INSTALLATION INFORMATION

- 1** Unit mounts on surface shown in **FIG 1**.
 - 2** To maximize cable life, align transducer with moving element so that cable exits unit within 2° of vertical (with unit oriented as shown in **FIG 1**).
 - 3** Use **Table 1** to determine cable exit location relative to transducer mounting holes.
 - 4** Mount unit with two **6-32** or smaller machine screws or two **M3.5** or smaller metric machine screws.
- NOTE:**
- A** Place a flat washer under the head of each screw.
 - B** Torque **6-32** screws to **5 lb-in** maximum.
 - C** Torque **M3.5** screws to **0.56 N-m** maximum.
- 5** Solder electrical leads to potentiometer on transducer per the circuit diagram shown in **FIG 2** (designators in diagram correspond to pin designators on potentiometer). Output may be reversed by reversing the **+Vin** and **COM** leads. Electrical leads may be strain relieved by fastening to the potentiometer with a cable tie.
- 6 NOTE:**
- Units with **2"**, **2.8"**, **3.8"** and **4.7"** range employ a single turn potentiometer which has no stops. On these units the wire rope will extend to a total length of approximately 8" to 10". When extension beyond the specified measurement range occurs, the wiper of the potentiometer traverses a deadband after which the electrical output begins again.

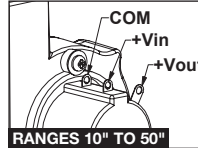
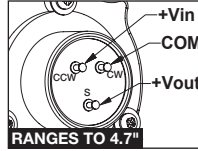
CONNECTIONS

CIRCUIT DIAGRAM

FIG 2



CONNECTION AT TRANSDUCER



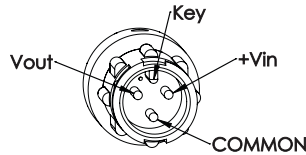
ELECTRICAL CABLE WIRING



NOTE: Shield is open at transducer

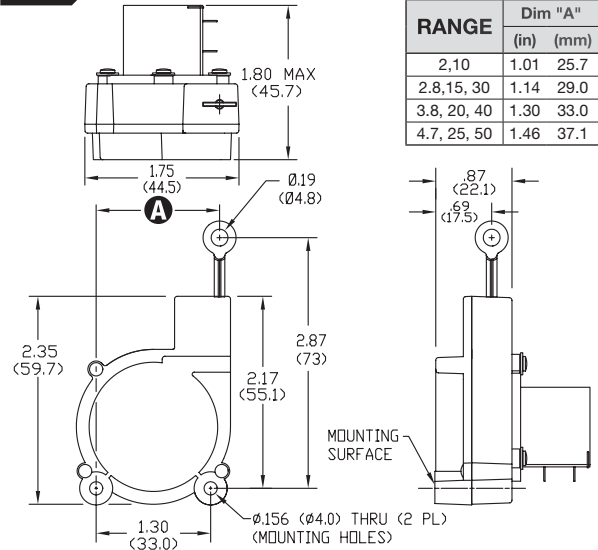
CABLE TO CABLE CONNECTOR

IF ORDERED CABLE TO CABLE CONNECTOR IS ATTACHED BY UNIMEASURE



DIMENSIONAL INFORMATION

FIG 1

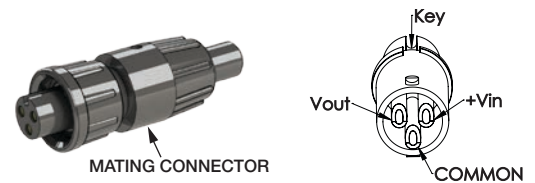


Dimensions in brackets are millimeters

TABLE 1

RANGE	Dim "A"	
	(in)	(mm)
2,10	1.01	25.7
2.8,15,30	1.14	29.0
3.8,20,40	1.30	33.0
4.7,25,50	1.46	37.1

MATING CONNECTOR WIRING DIAGRAM



VIEWED FROM SOLDERING SIDE OF MATING CONNECTOR



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SENSITIVITY