LX-PA Series Installation Guide

Installation Information

1. Unit mounts on surface shown in Figure 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 Figure 1).

3. Use Table 1 to determine cable exit location relative to transducer mounting holes.

4. Mount unit with two #6 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 Figure 2 (designators in diagram correspond to pin designators on potentiometer). Output may be reversed by reversing the +Vin and Common leads. Electrical leads may be strain relieved by fastening to the potentiometer with a cable tie.

6. Note: Units with ranges 4.7" and less 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.

Specifications Input Impedance	r DC	<u>le 1</u>	2.35 (59.7) 0 2.87 (73) 2.17 (55.1) 2.17 (55.1) MOUNTING
Linearity:	Range	Dim "A"	
Ranges to 4.7"±1.0% Full Scale		(inch) (mm)	
10" to 25" range ±0.5% Full Scale	2", 10"	1.01 25.7	
30" to 50" range ±0.25% Full Scale	2.8", 15", 30"	1.14 29.0	- 1.30 + 1.30
Operating Temperature15°C to 60°C	3.8",20", 40"	1.30 33.0	
P/N: 400103 F/N:400103A.INDD	4.7", 25", 50"	1.46 37.1	Dimensions in brackets are millimeters

CIRCUIT DIAGRAM

1.80 MAX

(45.7)

Ø.19

(Ø4.8)

+Vin (RED) · COM (BLACK) · +Vout (WHITE) · SHIELD ·

+Vin $\bullet \frac{1 \text{ CCW}}{3 \text{ CW}}$

+Vout • 2 S

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Ranges to 4.7"

1.75 (44.5)

"A'

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POSITION POTENTIOMETER

+Vin

COM

+Vout

Electrical Cable Wiring

NOTE: Shield is open at transducer

Q

Ranges 10" to 50"

.87 (22.1)

.69

сом

+Vin

Vout

Figure 2

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