# RATIOMETRIC LINEAR POSITION TRANSDUCER TYPE JX-PA-SERIES





## **DESCRIPTION:**

The JX-PA Series linear position transducer with analog output is primarily for use in moderate duty applications in wet or dry environments. The chemical resistant thermoplastic case of the transducer provides optional NEMA 4 (IP65) ingress protection for applications where exposure to washdown, rain, oil and other liquids may occur. The sealed case is achieved through the use of o-rings and a low friction shaft seal. An integral dust wiper insures that the wire rope stays clear of debris as it is extracted and retracted. Electrical connection options include body mounted sealed plastic connector with mating connector or a sealed bulkhead fitting and three conductor electrical cable of user specified length. If connector with mating connector option is chosen, the mating connector is available with or without electrical cable attached. Typical applications include but are not limited to forklift positioning, suspension travel measurement, valve positioning, liquid level measurement, flood and irrigation gate monitoring, and saw blade positioning.

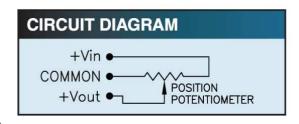
# SPECIFICATIONS:

Measurement range: see table Linearity

- 2",2.8",3.8",4.7"ranges: ±1.0%FS
- 10" to 25" ranges: ±0,5%FS
- 30" to 80" ranges: ±0,25%FS

Repeatability: ±0,02%FS

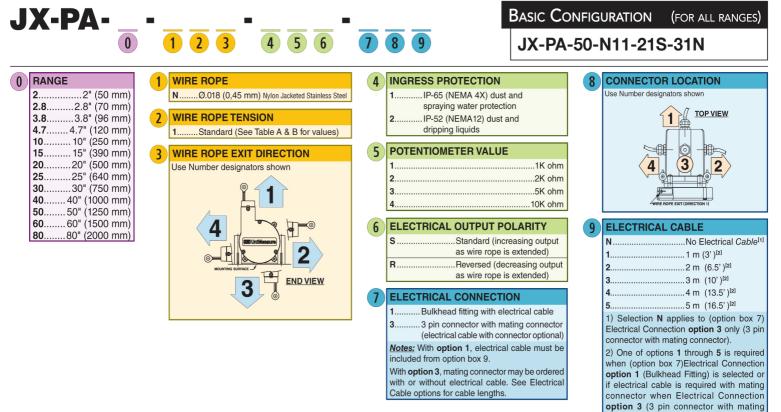
Resolution: essentially infinite Construction: Thermoplastic body Sensing device: precision potentiometer Wire rope: Ø018 Jacketed stainless steel Wire rope tension: see table Connections: electrical cable, or plastic connector Weight: 180gm **Electrical** Input impedance:  $1000\Omega \pm 15\%$ Output impedance:  $0-1000\Omega$ Excitation voltage: 30V Max. Output voltage change over Full range of transducer: 92% to 98% of excitation voltage



#### Environmental

Operating Temp.:  $-25^{\circ}$  ~  $+75^{\circ}$ Storage Temp.:  $-50^{\circ}$  ~  $+80^{\circ}$ Operating humidity:  $95^{\circ}$ RH max. non-condensing Vibration: 15G's 0.1 ms max. Shock: 50G's 0.1 ms max. Ingress protection: NEMA4, IP65

# MODEL NUMBER CONFIGURATION:

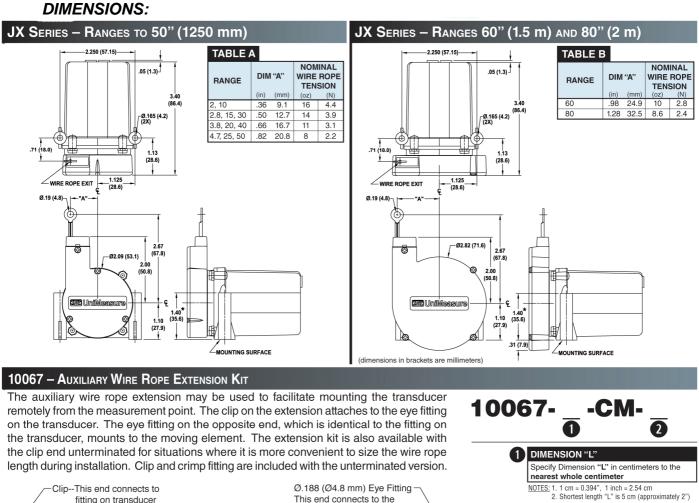


connector) is required.

## LIFE:

-Ranges to 4.7": 2,000,000 full stroke cycles -Ranges 10" to 25": 500,000 full stroke cycles -Ranges 30" to 80": 250,000 full stroke cycles

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fitting on transducer Crimp Sleeve - "L" ± 0.3 cm (0.12")

This end connects to the moving element.

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UNTERMINATED CLIP END Leave Blank..... Completed kit (No designator required) Unterminated Clip End

(clip and crimp sleeve included in kit)

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