

JX-PA Duty Application Ratiometric Voltage Output UniMeasure

The **UniMeasure 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 IP-65 (NEMA 4X) ingress protection for applications where exposure to wash down, 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. As an installation convenience, optional connector locations on the transducer body are offered. In addition, the wire rope exit direction may be specified at time of order or may be user adjusted at time of installation. 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.

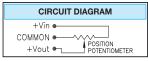
SPECIFICATIONS

GENERAL

| Measurement Range | . See Range Table below |
|-----------------------------|-------------------------------------------|
| Sensing Device | |
| Resolution | . Essentially Infinite |
| Linearity | |
| 2", 2.8", 3.8", 4.7" Ranges | ±1.0% Full Scale |
| 10" to 25" Ranges | ±0.5% Full Scale |
| 30" to 80" Ranges | . ±0.25% Full Scale |
| Repeatability | ±0.02% Full Scale |
| Construction | . Thermoplastic Body |
| Wire Rope | .Ø.018 (0.46 mm) Jacketed Stainless Steel |
| Wire Rope Tension | . See Supplemental Data ^[1] |
| Weight | . 6.3 oz. (180 gm) |
| Connections | . Electrical cable, or plastic connector |
| Life | |
| Ranges to 4.7" | . 2,000,000 full stroke cycles |
| Ranges 10" to 25" | . 500.000 full stroke cycles |
| Ranges 30" to 80" | , |
| • | |

| ENVIRONMENTAL | |
|----------------------------|------------------------------------|
| Operating Temperature | 25°C to +75°C |
| Storage Temperature | 50°C to +80°C |
| Operating Humidity | 100% R.H. |
| Vibration | 15 G's 0.1 ms max. |
| Shock | 50 G's 0.1 ms max. |
| Ingress Protection | IP-65 (NEMA 4X) or IP-52 (NEMA 12) |
| ELECTRICAL | |
| Input Impedance | 1000 Ω ±15% Standard |
| Output Impedance | 0 to 1000 Ω |
| Excitation Voltage | 30 V Max. |
| Output Voltage Change Over | |
| Full Range of Transducer | 92% to 98% of Excitation Voltage |
| | |

... Bulkhead Fitting + 5 m (16.5') Electrical Cable



FOOTNOTES TO SPECIFICATIONS:

Supplemental Data section located at end of JX Series pages.

MODEL NUMBER CONFIGURATION

| JX-PA | | - | BASIC CONFIGURATION (FOR ALL RANGES) |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | | 6 7 8 9 | JX-PA-50-N11-21S-N1C |
| RANGE 2 | WIRE ROPE NØ.018 (0,45 mm) Nylon Jacketed Stainless Steel WIRE ROPE TENSION 1Standard (See Table A & B for values) WIRE ROPE EXIT DIRECTION Use Number designators shown Image: A B for values Use Number designators shown Image: A B for values Image: A B for values | INGRESS PROTECTION IIIIGRESS PROTECTION IIIIGRESS PROTECTION IIIIGRESS PROTECTION IIIIGRESS PROTECTION IIIIGRESS PROTECTION IIIIGRESS PROTECTION IIIIIGRESS PROTECTION IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | Required Designator ELECTRICAL CONNECTION LOCATION USE NUMBER DESIGNATORS SHOWN JELENTRICAL CONNECTION JELENTRICAL CONNECTION JELENTRICAL CONNECTION BODY MOUNT CONNECTOR BULKHEAD FITTING TELECTRICAL CONNECTION ELECTRICAL CONNECTION BULKHEAD FITTING ELECTRICAL CONNECTION SELECTRICAL CONNECTION Connector with Mating Connector "Electrical cable with mating connector" may be ordered separately as item number 10249-XM where 's 's its her quired length in meters. Mukhead Fitting + 1 m (3') Electrical Cable Bulkhead Fitting + 2 m (6.5') Electrical Cable Bulkhead Fitting + 2 m (13.5') Electrical Cable |

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