The UniMeasure JX-P420 series linear position measuring transducer is a low cost device for use in moderate duty applications in hostile wet or dry environments. The chemical resistant thermoplastic case of the transducer provides IP-65 (NEMA 4X) 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. The standard electrical connection includes a sealed bulkhead fitting and multi-conductor electrical cable. An optional connector and mating connector are also available. As a convenience, optional connector locations on the transducer body are offered. The wire rope exit direction may be specified at time of order or may be user adjusted at time of installation.

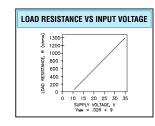
The JX-P420 series transducer is a loop powered device with a 4 to 20 mA current output that requires a two wire connection. The transducer, power supply, and current monitor are connected in series. Zero and span adjustment potentiometers are accessible by removing two sealing screws in the rear of the transducer housing. Zero and span allow for adjustment for a full 4 to 20 mA output at between 50% and 100% of maximum linear travel.

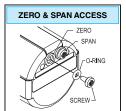
## **SPECIFICATIONS**

GENERAL	
Measurement Range	See Range Table below
Sensing Device	Precision Potentiometer
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 Stee
Wire Rope Tension	See Supplemental Data[1]
Weight	6.7 oz. (190 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"	250,000 full stroke cycles
ENVIRONMENTAL	
Operating Temperature	
Storage Temperature	
Operating Humidity	
	90% R.H. non-condensing NEMA 12
Vibration	
Shock	50 G's 0.1 ms max.

#### **ELECTRICAL**

Output		4 to 20 mA
Load Res	sistance (Total Loop)	See Graph Below
Excitation	n Voltage	9 to 35 VDC
Minimum	Supply Voltage	(.02 x Load Res.) + 9 VDC
Insulation	n Resistance	100 Megohms min. at 100 VDC
Zero Set	Adjustment Range	0 to 30% of Range
Span Set	t Adjustment Range	80% to 100% of Range
Protection	n	Fused & Reversed Polarity





#### FOOTNOTES TO SPECIFICATIONS

1. Supplemental Data section located at end of JX Series pages

### MODEL NUMBER CONFIGURATION

Ingress Protection ......IP-65 (NEMA 4X) or IP-52 (NEMA 12)

JX-P420-



**WIRE ROPE** 











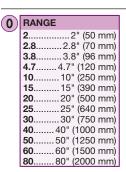


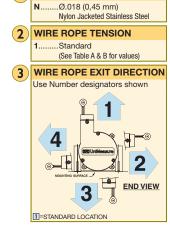


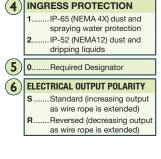
BASIC CONFIGURATION

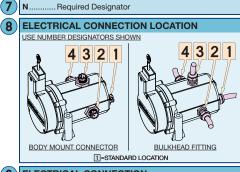
(FOR ALL RANGES)

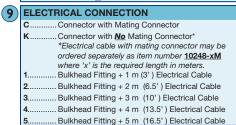
JX-P420-50-N11-20S-N1C









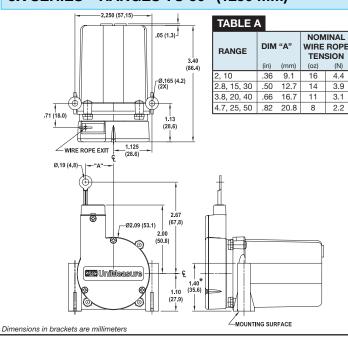




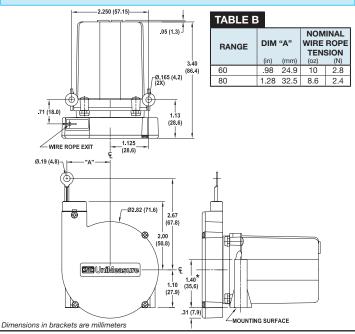


### **DIMENSIONAL INFORMATION**

# JX SERIES - RANGES TO 50" (1250 MM)

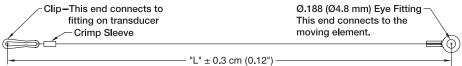


## JX SERIES - RANGES 60" (1.5 M) AND 80" (2 M)



#### 10067 - AUXILIARY WIRE ROPE EXTENSION KIT

The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from 10067the 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.





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