Weight 6.3 oz. (180 gm)

1) Shaded options available at additional cost.

NOTE

Connection24 AWG Shielded Electrical Cable

The UniMeasure JX-EP series linear position transducer with digital output is oriented for use in moderate duty applications in hostile wet or dry environments. The chemical resistant thermoplastic case of the transducer with integral dust wiper is factory configurable to NEMA 12 (IP-52) for dust protection or to NEMA 4X (IP-65) 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. The wire rope exit direction may be specified at time of order or may be user adjusted at time of installation. The standard electrical connection includes a sealed bulkhead fitting and multi-conductor electrical cable. An optional cable to cable connector with mating connector may be added to the electrical cable. Alternatively,

the cable to cable connector may be ordered without the mating connector. The mating connector with a length of electrical cable attached may be ordered as a separate item. As a convenience, optional connector locations on the transducer body are offered. The standard electrical output of the unit is a TTL level two channel square wave in quadrature. Optional outputs include line driver and push-pull circuits. SPECIFICATIONS

General	Life (to wire rope replacement)
Measurement Range See Range Table below	Ranges 10" to 25" 1,000,000 full stroke cycles
Sensing Device Digital Encoder	Ranges 30" to 80" 500,000 full stroke cycles
Nominal Resolution ²	Electrical
10" range	Excitation Voltage+5 VDC ±5% or 8-28 VDC
15", 30" range	Excitation Current 85mA MAX
20", 40" range	Output2 channel square wave in quadra-
25", 50" range	ture TTL level current sinking with
60" range 166 counts/inch, 6.5 counts/mm	65 KΩ pullups
80" range	Environmental
Linearity±0.10% Full Scale	Operating Temperature40°C to 70°C
Repeatability	Storage Temperature40°C to 80°C
(in times 1 counting mode)±1 Count, ranges to 25"	Operating Humidity95% R.H. non-condensing IP-52
±2 Counts, ranges 30" to 80"	case 100% R.H. IP-65 case
Construction Thermoplastic Body	Vibration20 G's maximum
Wire Rope	Ingress ProtectionNEMA 12 or 4X, IP-52 or 65
Wire Rope Tension See Supplemental Data ¹	FOOTNOTES TO SPECIFICATIONS 1. Supplemental Data section located at end of JX Series pages.

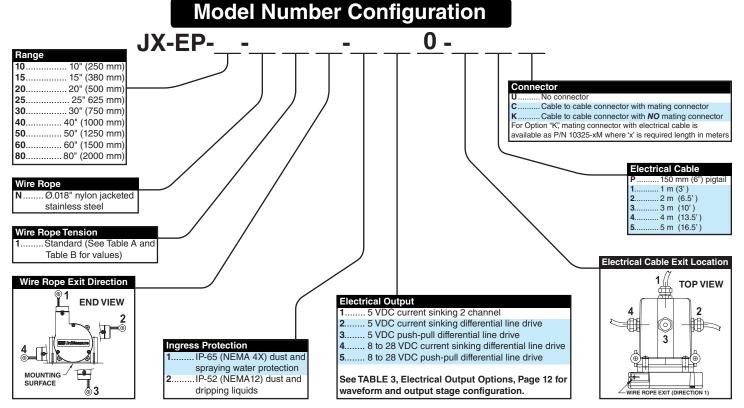
1. Supplemental Data section located at end of JX Series pages.

Resolution shown is for times one counting mode. Resolution may be increased by

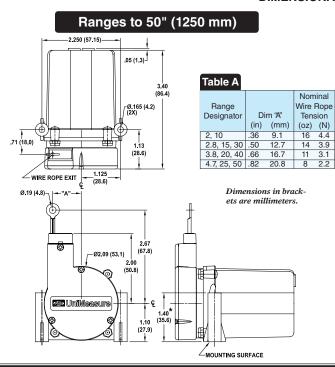
Example

JX-EP-50-N11-110-42U

a factor of four with interface electronics capable of quadrature times 4 counting mode.



DIMENSIONAL INFORMATION •



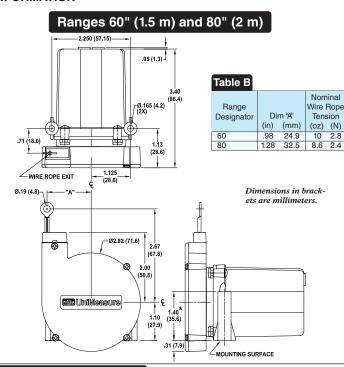


TABLE 3—Electrical Output Options—JX-EP Series

Option	Output Type	Output Stage	Waveform
1	5 VDC TTL Two Channel Current Sinking Two channels in quadrature with $65 \text{K}\Omega$ internal pullup resistors. 5 VDC input voltage	+5 VDC 65KΩ Vout COMMON	A B A THAT HAT H
2	5 VDC TTL Current Sinking Differential Line Drive Current sinking line drive output. $2K\Omega$ internal pullup resistors. 5 VDC input voltage	+5 VDC 2ΚΩ 7406 Vout	
3	5 VDC Push-Pull Differential Line Drive Push-Pull, current sourcing and current sinking output. 5 VDC input voltage. Output is compliant with requirements of TIA/EIA-422-B.	+5 VDC AM26C31 Vout COMMON	A THE THE THE
4	8 to 28 VDC Current Sinking Differential Line Drive Current sinking line drive output with $10 \mathrm{K}\Omega$ internal pullup resistors. 8 to 28 VDC input voltage	+8 to +28 VDC 10KΩ 	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
5	8 to 28 VDC Push-Pull Differential Line Drive Push-Pull, current sourcing and current sinking output. 8 to 28 VDC input voltage.	+8 to +28 VDC 7272 Vout COMMON	

Accessory—10067 Auxiliary Wire Rope Extension Kit



The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from the 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. The clip and crimp sleeve are included as loose parts for user termination.

Dimension "L"

Specify dimension "L" in centimeters to the **nearest whole centimeter**.

Note 1. 1 cm = 0.394", 1 inch = 2.54 cm Note 2. Shortest length "L" is 5 cm (approximately 2").