

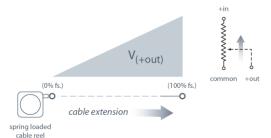


*note: 2–40" range shown for illustration, see outline drawing for other ranges.

PTX101은 저렴하고 사용하기 쉬운 소형 케이블 연장 변환기입니다. 2~100인치의 전체 측정 범 위에서 사용할 수 있습니다. PTX101은 이동하는 스테인리스강 연장 케이블의 선형 움직임에 비례 하는 전압 피드백 신호를 제공합니다.

트랜스듀서 본체를 고정된 표면에 장착하고 연장 케이블을 움직이는 물체에 부착하기만 하면 됩니다. PTX101은 공간과 비용이 제한된 애플리케이션에 권장됩니다.

Output Signal



PTX101

Cable Actuated Sensor Instrument Grade • Voltage Divider

Absolute Linear Position to 100 inches (2540 mm)

Compact Design • OEM Applications

Anodized Aluminum Enclosure

IP50 / NEMA 1 • Automation & Testing Applications

General

Full Stroke Range 0-2 to 0-100 inches

Output Signal Accuracy voltage divider (potentiometer)

Repeatability Resolution see ordering information

Measuring Cable \pm 0.02% full strokeEnclosure Materialessentially infinite

Sensor .019-inch dia. nylon-coated stainless steel

Potentiometer Cycle rope anodized aluminum

Life Maximum plastic-hybrid precision potentiometer

Retraction Acceleration see ordering information
Weight (maximum) see ordering information

2 lbs. max.

Electrical

Input Resistance500, 1K, 5K, 10K or bridgeMaximum Input Voltagesee ordering information see

Power Rating ordering information

Output Signal Change Over 94% ±4% of input voltage Full Stroke Range

Environmental

Enclosure IP50, NEMA 1
Temperature Coefficient of 88 PPM/°F

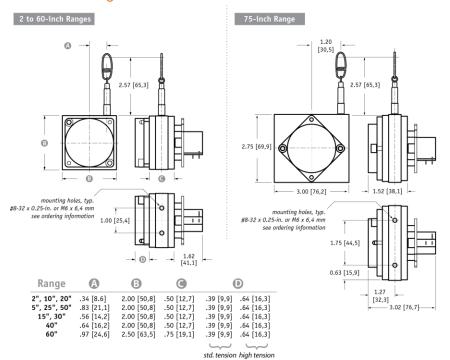
Sensing Element

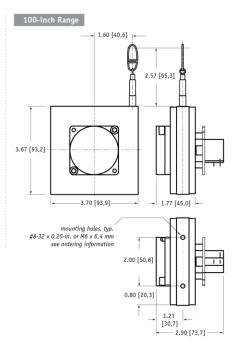
Humidity100% RH @ 90° F (32° C)Operating Temperature -40° to 200° F (-40° to 90° C)Vibrationup to 10 g to 2000 Hz maximum

SENSOR SOLUTIONS /// PTX101

12//2015

Outline Drawing

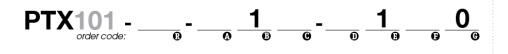




All Dimensions are in INCHES [MM] tolerances are ± 0.03 in. [0,8 mm]

Ordering Information

Model Number:



Sample Model Number:

PTX101 - 0025 - 111 - 1110

R range:
A measuring cable tension:

mounting holes:
sensing circuit:
electrical connection:

25 inches standard - 5 oz. 8-32 x .25 in. threaded 500 ohms solder terminals

Full Stroke Range:

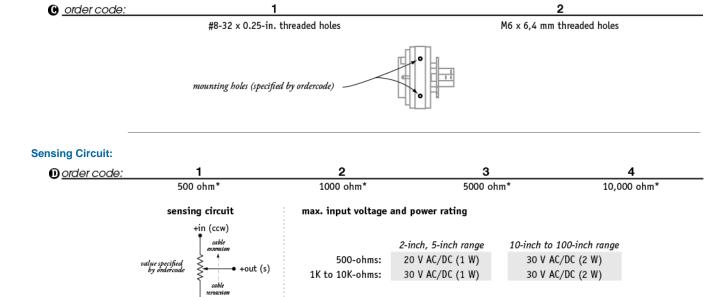
• order code:	0002	0005	0010	0015	0020	0025	0030	0040	0050	0060	0075	0100
full stroke range, min:	2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.	75 in.	100 in.
accuracy (% of f.s.):	0.25%	0.25%	0.15%	0.15%	0.10%	0.15%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
potentiometer cycle life*:	2.5×10^{6}	2.5×10^{6}	5 x 10 ⁵	2.5×10^{5}								

*–1 cycle is defined as the travel of the measuring cable from full retraction to full extension and back to full retraction

Measuring Cable Tension:

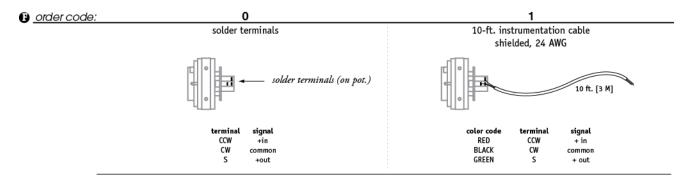
♠ order code:		1				н			
	standard tension				high tension				
	tension, ±20%		max acceleration		tension, ±40%		max acceleration		
2, 10, 20 inch range:	12 oz.	•	11 g		65 oz.	0	53 g		
5, 25, 50 inch range:	5 oz.		2 g		26 oz.	•	11 g		
15, 30 inch range:	8 oz.	0	3 g		43 oz.	0	23 g		
40 inch range:	6 oz.		4 g		33 oz.	0	16 g		
60 inch range:	13 oz.		4 g		22 oz.	0	8 g		
75 inch range:	10 oz.		3 g		31 oz.		12 g		
100 inch range:	13 oz.	0	5 g	:	52 oz.	0	20 g		

Mounting Holes:



Electrical Connection:

common (cw)



NORTH AMERICA

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*tolerance = ±10%