

Cable-Extension Position Transducer

Precision Potentiometric Output
Ranges: 0-2 to 0-60 inches
Industrial Grade



PT8101

Specification Summary:

GENERAL

Full Stroke Range Options 0-2 to 0-60 inches
 Output Signal Options voltage divider (potentiometer)
 Accuracy $\pm 0.25\%$ to $\pm 0.10\%$ full stroke *see ordering information*
 Repeatability $\pm 0.02\%$ full stroke
 Resolution essentially infinite
 Measuring Cable Options nylon-coated stainless steel or thermoplastic
 Enclosure Material powder-painted aluminum or stainless steel
 Sensor plastic-hybrid precision potentiometer
 Potentiometer Cycle Life *see ordering information*
 Maximum Retraction Acceleration *see ordering information*
 Weight, Aluminum (Stainless Steel) Enclosure 3 lbs. (6 lbs.) max.

ELECTRICAL

Input Resistance Options 500, 1K, 5K, 10K or bridge, *see ordering information*
 Power Rating, Watt *see ordering information*
 Recommended Maximum Input Voltage *see ordering information*
 Output Signal Change Over Full Stroke Range 94% $\pm 4\%$ of input voltage

ENVIRONMENTAL

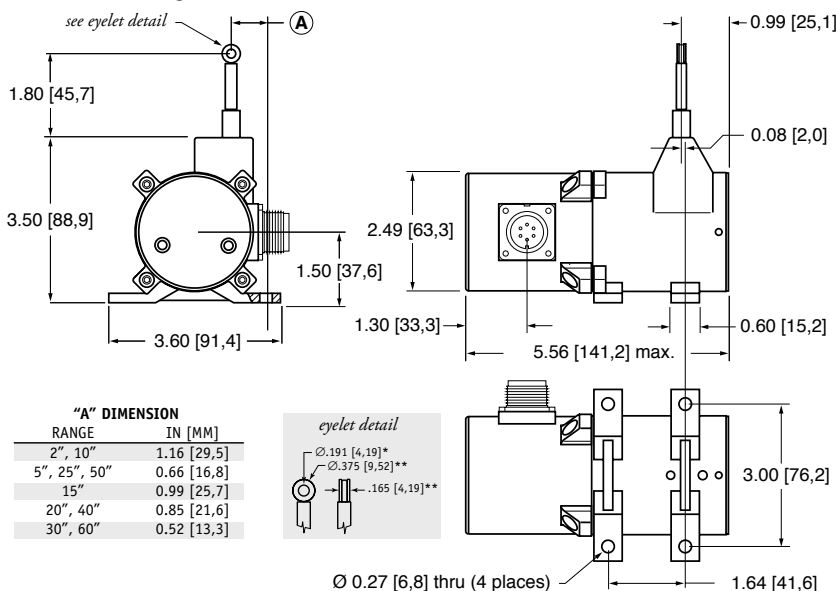
Enclosure NEMA 4/4X/6, IP 67/68
 Operating Temperature -40° to 200° F (-40° to 90° C)
 Vibration up to 10 G's to 2000 Hz maximum



The PT8101, using a high cycle plastic-hybrid potentiometer, operates with any basic panel meter or programmable controller in factories and harsh environments requiring linear position measurements in ranges up to 60".

As a member of Celesco's innovative family of NEMA 4 rated cable-extension transducers, the PT8101: installs in minutes by mounting its body to a fixed surface and attaching its cable to the movable object, works without perfect parallel alignment, and when its stainless-steel cable is retracted, it measures only 5".

Outline Drawing



DIMENSIONS ARE IN INCHES [MM]
 tolerances are ± 0.02 in. [$\pm 0,5$ mm] unless otherwise noted

* tolerance = $+0.005 -0.001 [+.13 -.03]$
 ** tolerance = $+0.005 -0.005 [+.13 -.13]$

Output Signal

