## PT5MA

Industrial Grade • 0...5, 0... 10 Vdc
Absolute Linear Position to 250 inches $(6350 \mathrm{~mm})$
Hard Anodized Aluminum Enclosure
High Cycle Applications
IP67• NEMA 6 Protection
GENERAL
Full Stroke Range Options
Output Signal Options
4... 20 mA (2-wire) and $0 . . .20 \mathrm{~mA}$ (3-wire)

Accuracy $\quad \pm 0.75 \%$ to $\pm 0.18 \%$ full stroke (see ordering information)
Repeatability see ordering information
Resolution essentially infinite

| Measuring Cable Options | stainless steel or thermoplastic |
| :--- | ---: |
| Enclosure Material | hard anodized aluminum |
| Sensor | plastic-hybrid precision potentiometer |
| Potentiometer Cycle Life | see ordering information |
| Maximum Measuring Cable Velocity | see ordering information |
| Maximum Retraction Acceleration | see ordering information |
| Weight | 5 lbs. max. |

## ELECTRICAL

| Input Voltage | see ordering information |
| :--- | ---: |
| Input Current | 20 mA max |
| Maximum Loop Resistance (Load) | (loop supply voltage -8$) / 0.020$ |
| Circuit Protection | 38 mA max. |
| Impedance | 100 M ohms @ $100 \mathrm{VDC}, \mathrm{min}$. |
| Signal Adjust, Zero | from factory set zero to $50 \%$ of full stroke range |
| Signal Adjust, Span | to $50 \%$ of factory set span |

## ENVIRONMENTAL

Enclosure
NEMA 4/6, IP 65/67
Operating Temperature
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.90^{\circ} \mathrm{C}\right)$
Vibration up to 10 G's to 2000 Hz maximum

## EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

Emission / Immunity
EN50081-2 / EN50082-2


The PT5MA potentiometric cable-extension transducer uses a unique thermoplastic cable that has virtually an infinite fatigue life. This cable, known as V62, has properties that are superior for high cycle and rugged applications.

Like Celesco's other transducers, the PT5MA installs in minutes, functions properly without perfectly parallel alignment, and fits easily into small areas. The PT5MA offers additional installation flexibility since its cable exit can be rotated relative to the mounting surface, providing four different cable exit orientations.

Output Signal:


[^0]Outline Drawing:


DIMENSIONS ARE IN INCHES [MM]
tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

Ordering Information:


Full Stroke Range:


Ordering Information (cont.):

## Measuring Cable:



Cable Exit:


## Output Signals:



Electrical Connection:


## Output Signal Selection:




[^0]:    *Optional 3-wire, 0...20mA output signal available.

