0/4...20 mA Output

Ranges: 0-10 to 0-250 inches

Industrial Grade

PT5MA

CE

Specification Summary:

GENERAL	
Full Stroke Range Options	0-10 to 0-250 inches
Output Signal Options	. 420 mA (2-wire) and 020 mA (3-wire)
Accuracy \pm 0.75% to	±0.18% full stroke <i>see ordering information</i>
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	
Weight	5 lbs. max.

ELECTRICAL

GENERAL

Input Voltage	see ordering information
	20 mA max.
Maximum Loop Resistance (Load)	(loop supply voltage – 8)/0.020
Circuit Protection	38 mA max.
Impedance	100 M ohms @ 100 VDC, min.
Output Signal Adjustment	
Zero Adjustment	from factory set zero to 50% of full stroke range
Span Adjustment	to 50% of factory set span

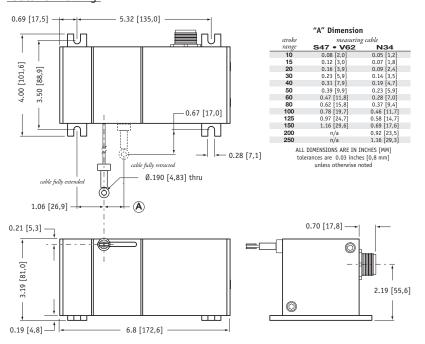
ENVIRONMENTAL

Enclosure	NEMA 4/6, IP 65/67
Operating Temperature	40° to 200°F (-40° to 90°C)
Vibration	up to 10 G's to 2000 Hz maximum

EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

Emission / Immunity..... EN50081-2 / EN50082-2

Outline Drawing

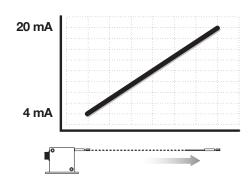




The PT5MA potentiometric cable-extension transducer uses a unique thermoplastic cable that has virtually an infinite fatigue life. This cable, known as V62, has properties that are superior for high cycle and rugged applications.

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 orienta-

Output Signal



Ordering Information:

Model Number:

Sample Model Number:

PT5MA - 100 - N34 - FR - 420E - M6

R range:

A measuring cable:

B cable exit:

• output signal:

100 inches .034 nylon-coated stainless

front

4...20 mA

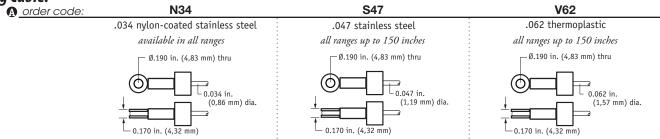
• electrical connection:

6-pin plastic connector

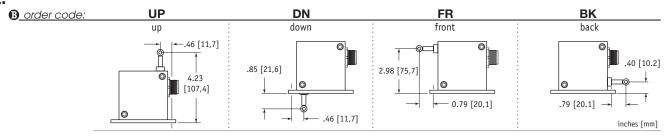
Full Stroke Range:

R <u>order code:</u>	10	15	20	25	30	40	50	60	80	100	125	150	200	250
full stroke range, min:	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.	80 in.	100 in.	125 in.	150 in.	200 in.	250 in.
accuracy (±% of f.s.):	.75%	.6%	.5%	.5%	.5%	.3%	.3%	.25%	.25%	.25%	.25%	.18%	.18%	.18%
repeatability (±% of f.s.):	.1%	.1%	.05%	.05%	.05%	.05%	.05%	.02%	.02%	.02%	.02%	.02%	.02%	.02%
potentiometer cycle life:	2,500,000 cycles					500,000 cycles					250,000 cycles			
cable tension (20%):	41 ounces								21 ounces					
max. cable velocity/acceleration:	300 in./sec ● 5 G's								120 in./sec ● 2 G's					

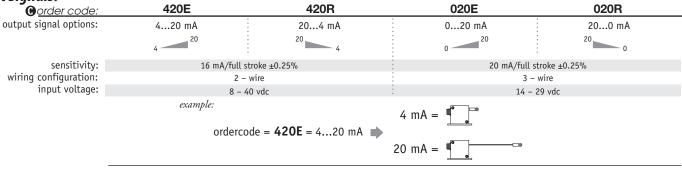
Measuring Cable:



Cable Exit:

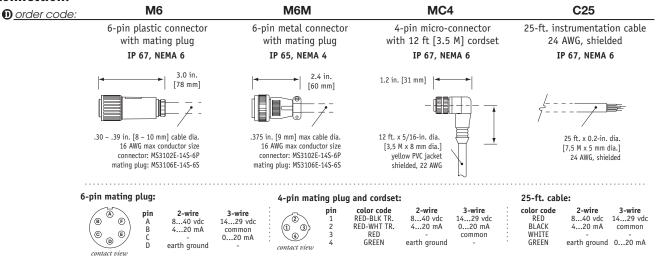


Output Signals:



Ordering Information (cont.)

Electrical Connection:



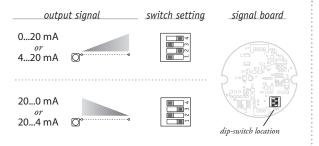
北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号

金隅国际C座1002

电话: +86 010 8477 5646 传真: +86 010 5894 9029 邮箱: <u>sales@sensorway.cn</u> http://www.sensorway.cn

Output Signal Selection:

The output signal direction can be reversed at any time by simply changing the dip-switch settings found on the internal signal board. After the settings have been changed, adjustment of the Zero and Span trimpots will be required to precisely match signal values to the beginning and end points of the stroke.



Allen-Head Screws and remove end cover bracket.

internal dip switches & signal board

Caution! Do Not Remove Spring-Side End Cover
Removing spring-side end cover could cause spring to become unseated and permanently damaged.

To gain access to the signal board, remove four

version: 6.0 last updated: May 12, 2010