

Cable-Extension Position Transducer

- ▼ Short to Medium Range
- ▼ Industrial Grade - High Cycle Applications
- ▼ Potentiometer Sensor - RS232 Output

PT5MP



Specification Summary:

GENERAL

Full Stroke Ranges 0-10 to 0-150 inches, see ① next page
 Output Signal RS232, RS422 or 485, see ⑤
 Accuracy ± 0.25 to $\pm 0.10\%$ full stroke, max., see ②
 Repeatability $\pm 0.02\%$ full stroke, max.
 Resolution 0.01 to 0.001in. (0.1 to 0.01 mm), see ③
 Measuring Cable thermoplastic or stainless steel, see ④
 Enclosure Material hard-anodized aluminum
 Sensor plastic-hybrid precision potentiometer
 Maximum Measuring Cable Velocity 300 inches per second
 Maximum Measuring Cable Acceleration 5 g
 Weight 5 lbs., max

ELECTRICAL

Input Voltage 10...30 VDC
 Input Current 100 mA, max.
 Temperature Coefficient of Sensing Element 88 P.P.M./°F

COMMUNICATIONS

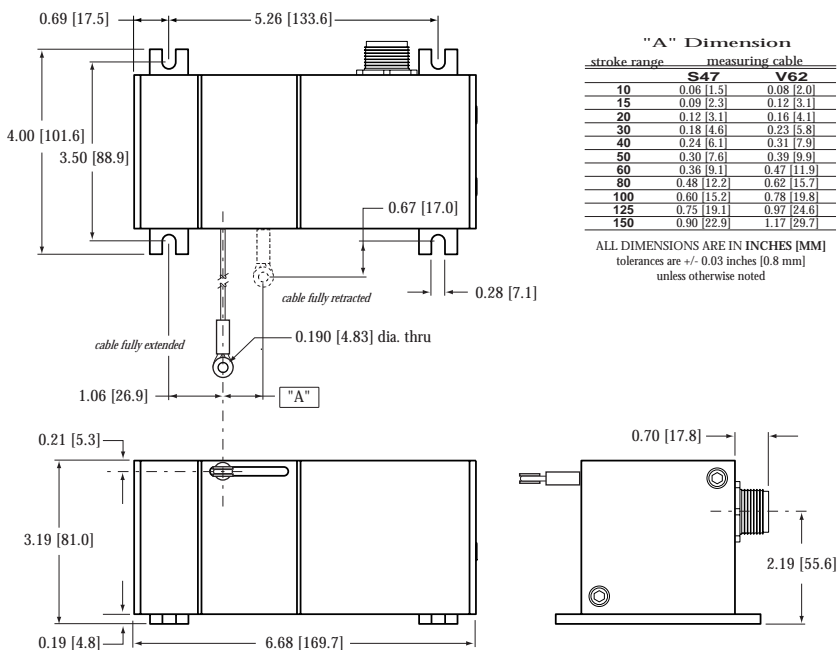
Baud Rate 9600 or 19.2K, see ⑥
 Format startbit, 8 databits, stopbit, no parity
 Position Output Data ASCII string

ENVIRONMENTAL

Enclosure Design NEMA 4, IP65/67
 Operating Temperature 0° to 80°C
 Vibration up to 10 G's to 2000 Hz

The PT5MP cable-extension transducer delivers positional feedback signal via RS232, RS422 or RS485 serial communication. Transducer can either transmit data continuously or polled as needed. As a precision plastic hybrid potentiometer is used as the sensor, the PT5MP constantly maintains position information even when power is lost.

Like Celesco's other transducers, the PT5MP installs in minutes, functions properly without perfectly parallel alignment, and fits easily into small areas.



Input / Output Signals:

- 10...30 VDC Input Voltage
- TxD + Transmit Data +
- RxD + Receive Data +
- TxD - Transmit Data -
- RxD - Receive Data -
- Reset Microprocessor Reset
- Preset Reset Count to "Zero"
- Forward / Reverse Set to Count Up/Down on Cable Extension
- Signal Ground Signal Ground
- Earth Ground Case Ground

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PT5MP • Cable-Extension Transducer • RS232 Output

Model Number:

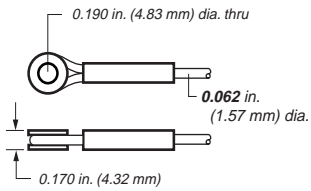
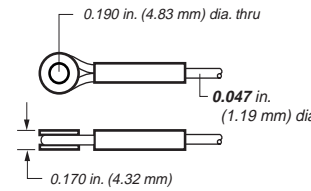
PT5MP - _____
 order code: **R** **A** **B** **C** **D** **E**

Full Stroke Range:

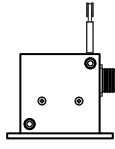
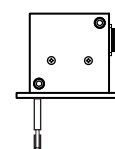
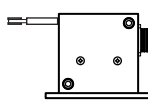
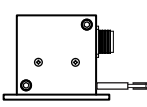
	10	15	20	25	30	40	50	60	80	100	125	150
① full stroke range, min:	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.	80 in.	100 in.	125 in.	150 in.
② accuracy (% of f.s.):	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.15 %	0.15 %	0.15 %	0.15 %	0.15 %	0.15 %	0.10 %
std. cable tension (±20%):	20 oz.	20 oz.	19 oz.	19 oz.	18 oz.	18 oz.	17 oz.	17 oz.	16 oz.	16 oz.	15 oz.	15 oz.
potentiometer cycle life*:	2.5 x 10 ⁶						5 x 10 ⁵					2.5 x 10 ⁵
③ resolution:	0.001 in. (0.1 mm)									0.01 in. (1 mm)		

*note: **potentiometer cycle life** is defined as the minimum number of times the measuring cable can be fully extended and retracted before any measurable degradation of the output signal occurs.

Measuring Cable:

	V62	S47
④ cable construction:	.062 thermoplastic	.047 stainless steel
		

Cable Exit:

	UP	DN	FR	BK
⑤ order code:				
direction:	up	down	front	back
				

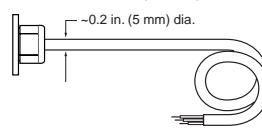
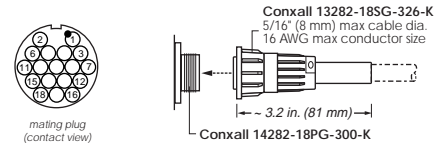
Data Communication:

	232	422	485
⑤ input / output signal:	RS232	RS422	RS485

Baud Rate:

	9.6	19.2	other
⑥ order code:			
baud rate:	9600	19.2 K	custom

Electrical Connection:

	C25	M18
electrical connection:	25 ft. instrumentation cable	18-pin plastic connector and mating plug
		

celesco

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