Cable-Extension Position Transducer

■ Short to Medium Range

4...20 mA Output

(E



FNFRAI

ELECTRICAL

12 to 40 VDC
20 mA, max.
. (loop supply voltage - 12) / 0.02, max.
38 mA maximum
100 M Ω @ 100 VDC, min.
2:1 turndown
MS3102E-14S-6P
MS3106E-14S-6S

ENVIRONMENTAL

Enclosure Design	NEMA 1
Operating Temperature	40° F to 180°F
Thermal Effects	
Zero	0.01% full stroke / °F, max.
Span	0.01% / °F, max. up to 10 G's to 2000 Hz max.
Vibration	up to 10 G's to 2000 Hz max.

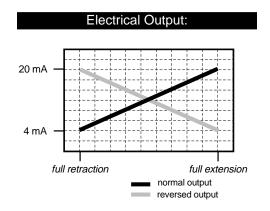
MECHANICAL

Measurement Range (Inches)	Cable Tension (Ounces, ±30%)	Max. Cable Acceleration (Gravities)
0- 2, -10, -20	12	11
0- 5, -25, -50	5	2
0-15, -30	8	3
0-40	6	4
0-60	13	4
0-75	10	3
0-100	13	2

PT420

The PT420 is available with full-scale measurement ranges from 2 to 100 inches, providing a 0/4-20 mA feed-back signal that is linearly proportional to the position of a traveling stainless-steel extension cable. Use the PT420 to provide position feedback on hydraulic cylinders in factories and utilities, gate position in fresh or wastewater distribution systems, or valve opening in process-related applications.

The PT420 installs in minutes by mounting its base to a fixed surface and attaching its cable to the movable object. The PT420 works without perfect parallel alignment, and when its stainless steel cable is retracted, its height is less than 5".



Latin Tech, Inc.

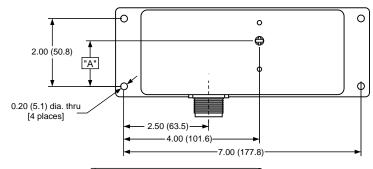
www.lt-automation.com info@lt-automation.com

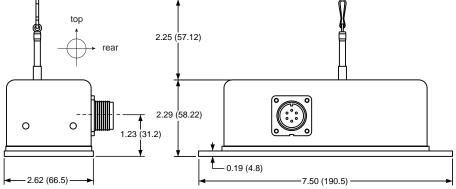
PT420 Short to Medium Range • 4...20 mA Output Signal

outline drawing (2 thru 50 inch f.s. ranges)

"A" DIMENSION **RANGE** INCHES (MM) 2", 10", 20" 1.34 (34.0) 5", 25", 50" | 1.83 (46.8) 1.56 (39.6) 1.63 (41.4) ALL DIMENSIONS ARE IN

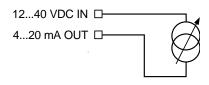
INCHES (MM) tolerances are ±0.02 in. (+0.5mm) unless otherwise noted



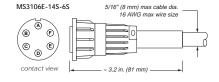


Electrical:

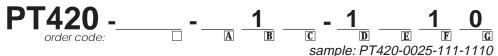
Sensing Circuit



Mating Plug



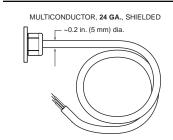
Ordering Information / Model Number:



Full Stroke Range

0002 = 2 inches 0030 = 30 inches0040 = 40 inches0005 = 5 inches0010 = 10 inches0050 = 50 inches0015 = 15 inches0060 = 60 inches0075 = 75 inches0020 = 20 inches0025 = 25 inches0100 = 100 inches

Instrumentation Cable



Electrical Connections

		2-wire	3-wire
	Α	1240 VDC	1240 VDC
	В	420 mA out	common
6-pin	С		020 mA out
conn.	D	case ground	
	Е		
	F		
	RED	1240 VDC	1240 VDC
instr. cable	BLK	420 mA out	020 mA out
	WHT	n/a	common
	GRN	case ground	n/a

A Measuring Cable Tension

1 = standard (see MECHANICAL specifications)

NOTE: options 2, 3, and 7 below are available for RE-ORDER only!

2 = increased (approx. 4 x standard cable tension, 0.024 inch dia. measuring cable)*

3 = high (approx. 8 x standard cable tension, 0.024 inch dia. measuring cable)*

7 = decreased (same as standard cable tension)

Measuring Cable Exit

NOTE: options 2, 3, and 4 below are available for RE-ORDER only!

1 = top exit2 = front exit 3 = rear exit 4 = bottom exit

E Output

1 = 4-20 mA, 2-wire, output increasing with cable extension

2 = 20-4 mA, 2-wire, output decreasing with cable extension

3 = 0-20 mA, 3-wire, output increasing with cable extension

4 = 20-0 mA, 3-wire, output decreasing with cable extension

F Electrical Connection

1 = 6-pin plastic connector and mating plug

2 = terminal strip

3 = 6-pin metal connector and mating plug

4 = 25 ft. instrumentation cable

^{*} note: mechanical dimensions may vary from outline drawing above