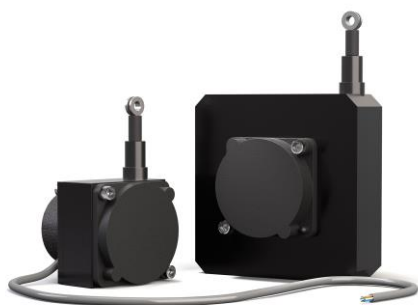
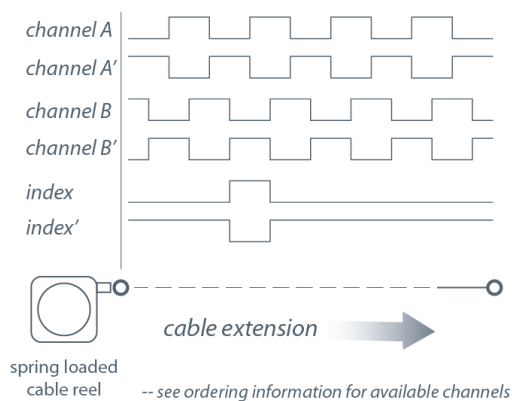


The PTX150 is a low cost, compact and easy to use encoder based cable-extension transducer. It is available with full stroke ranges up to 150 inches. The PTX150 provides an incremental encoder feedback signal.

Simply mount the body of the transducer to a fixed surface and attach the extension cable to the moving object. The PTX150 is recommended for application where space and money is limited.

Output Signal



PTX150

Cable Actuated Sensor Incremental Encoder Output

Linear Position to 150 inches (3810 mm)

Compact Design • OEM Applications

Anodized Aluminum Enclosure

IP50 / NEMA 1 • Automation & Testing Applications

General

Full Stroke Range	0-25 to 0-150 in., 0-625 to 0-3750 mm
Output Signal	incremental encoder (quadrature)
Accuracy	see ordering information
Repeatability	± 0.02% full stroke
Resolution	25 to 1250 pulses per inch
Measuring Cable	0.019-in. dia. nylon-coated stainless steel
Enclosure Material	anodized aluminum
Sensor	optical encoder
Maximum Retraction	see ordering information
Acceleration	
Weight (maximum)	1 lb. max.

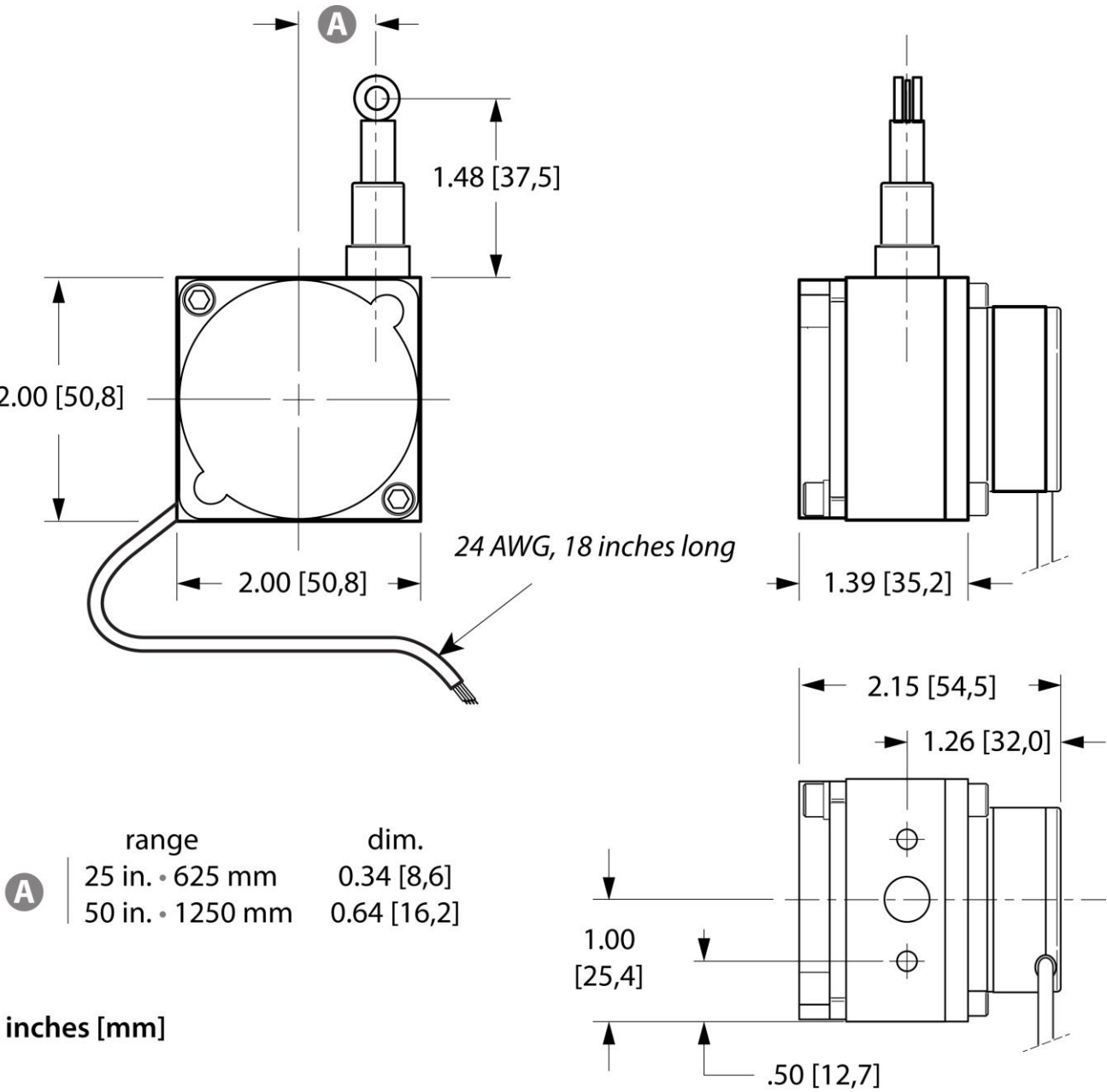
Electrical

Input Voltage	see ordering information
Input Current	see ordering information
Electrical Connection	18-inch multiconductor cable

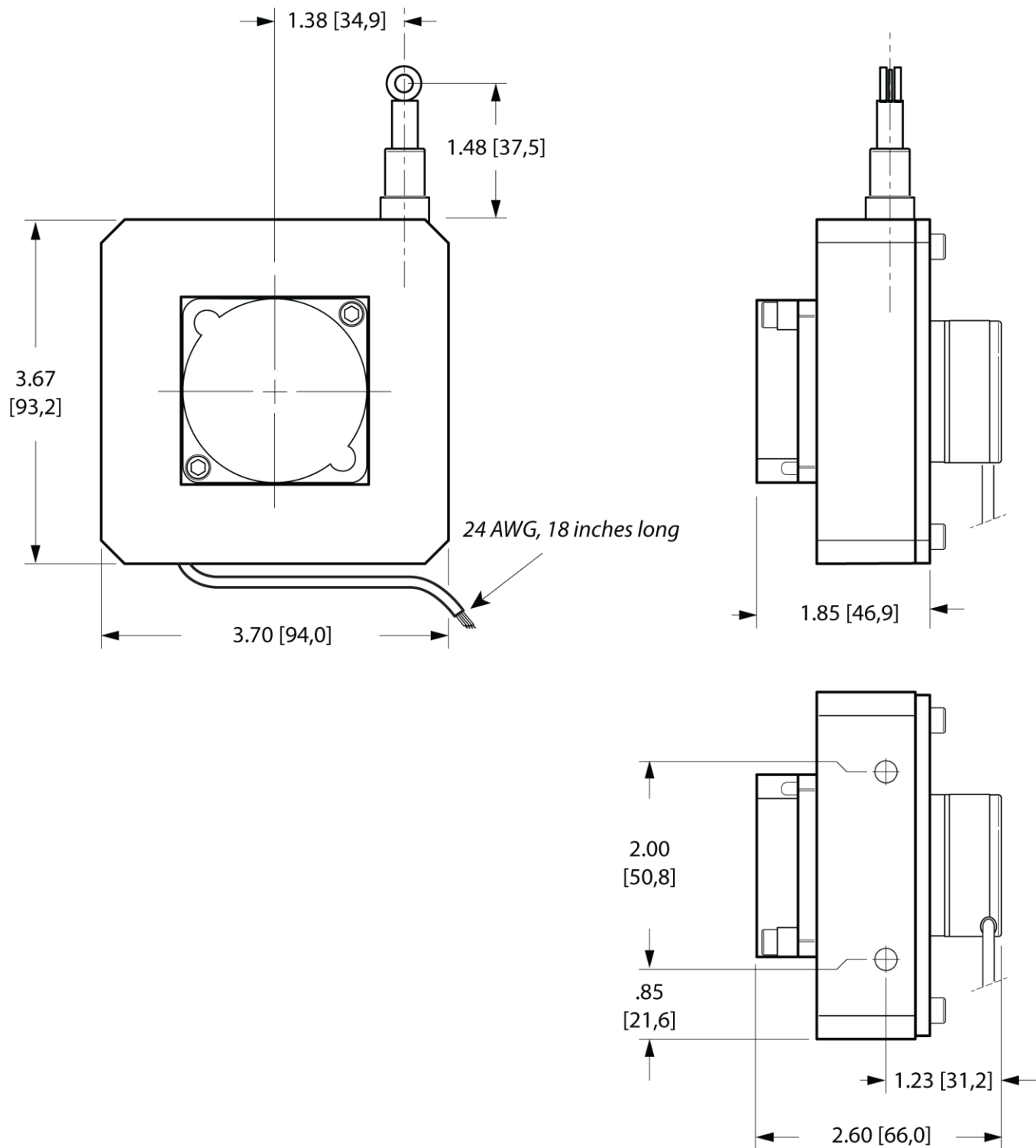
Environmental

Enclosure	IP50, NEMA 1
Humidity	98% RH non-condensing
Operating Temperature	0° to 160°F (-17° to 71°C)
Vibration	up to 10 g @58 to 500 Hz

Outline Drawing (25, 50-inch & 625, 1250 mm ranges)



Outline Drawing (100, 150-inch & 2500, 3750 mm ranges)



PTX150

Incremental Encoder Output

Model Number:

PTX150 - **1 1** - **0 0**
order code: **R A B C D E F G**

Sample Model Number:

PTX150 - 0025 - 111 - 1110

R range: 25 inches
A mounting holes: 8-32 x .25 in. threaded
D output signal: TTL/CMOS driver, Channels A,B
E resolution: 500 pulses per inch

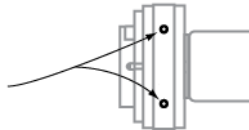
Full Stroke Range:

R order code:	0025	0050	0100	0150	0625	1250	2500	3750
full stroke range, min:	25 in.	50 in.	100 in.	150 in.	625 mm	1250 mm	2500 mm	3750 mm
accuracy:	±0.010 in.	±0.020 in.	±0.040 in.	±0.060 in.	±0.25 mm	±0.50 mm	±1.00 mm	±1.50 mm
repeatability:	±0.005 in.	±0.010 in.	±0.020 in.	±0.030 in.	±0.12 mm	±0.25 mm	±0.50 mm	±0.75 mm
cable tension (±20%):	13 oz.	6 oz.	14 oz.	8 oz.	3,6 N	1,8 N	5,0 N	3,0 N

Mounting Holes:

G order code:	1	2
	#8-32 x 0.25-in. threaded holes	M6 x 6,4 mm threaded holes

mounting holes (specified by ordercode)



Output Signals:

D order code:	1	2	3	4
driver option:	 TTL - CMOS	 Open Collector	 5 Volt Line Driver	 Universal Line Driver
Specs:				
Input voltage (V+):	4.5...13.2 Vdc	10.8...26.4 Vdc	5 Vdc	5...30 Vdc
Sink current:	20 mA max.	20 mA max.	20 mA max.	20 mA max.
Input current:	80 mA max.	80 mA max.	150 mA max.	100 mA max, no load
Signal:	4.5 - 13.2 VDC	10.8 - 26.4 VDC	4.5 - 13.2 VDC	5 - 30 VDC
Channel A	Red	Red	Red	Red
Channel A'	White	White	White	White
Channel B	Green	Green	Green	Green
Channel B'	Black	Black	Blue	Blue
Index			Yellow	Yellow
Index'			Orange	Orange
Common			Black	Black

Resolution:

E order code:	1	2	3	4
25 in. range:	500 ppi	1000 ppi	1250 ppi	50 ppi
50 in. range:	250 ppi	500 ppi	625 ppi	25 ppi
100 in. range:	100 ppi	200 ppi	250 ppi	10 ppi
150 in. range:	100 ppi	200 ppi	250 ppi	10 ppi
625 mm range:	20 ppmm	40 ppmm	50 ppmm	2 ppmm
1250 mm range:	10 ppmm	20 ppmm	25 ppmm	1 ppmm
2500 mm range:	5 ppmm	10 ppmm	12,5 ppmm	0,5 ppmm
3750 mm range:	4 ppmm	10 ppmm	12,5 ppmm	0,5 ppmm