# **Cable-Extension Position Transducer**

- **Long Range**
- **Industrial Grade**
- 0...10 VDC Output Signal

### **Specifications:**

GENERAL	
Full Stroke Ranges-on this datasheet 0-600	to 0-1700inches, see ① next page
Output Signal	0-10, 0-5 VDC, see ⑦
Accuracy	<u>+</u> 0.12% full stroke
Repeatability	<u>+</u> 0.05% full stroke
Resolution	
Measuring Cable stainless steel or i	
Enclosure Materialpowder-painted	
Sensor pla	astic-hybrid precision potentiometer
Potentiometer Cycle Life*	250,000 min.
Maximum Retraction Acceleration	see ⑥
Maximum Velocity	
Weight, Aluminum (Stainless Steel )Enclosure	e 14 lbs. (28 lbs.) max.

### **ELECTRICAL**

14.5-40VDC (10.5-40VDC for 0-5 volt output)
10 mA maximum
1000 ohms
5000 ohms
2:1 turndown

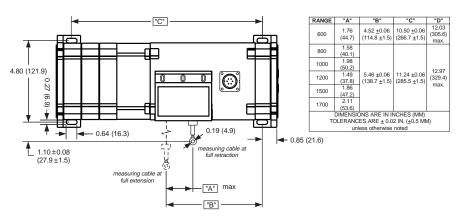
### **ENVIRONMENTAL**

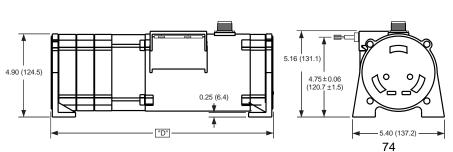
Enclosure Design	NEMA 4/4X/6, IP65/67/68, see ® and 9
Operating Temperature	40° to 200°F
Vibration	up to 10 G's to 2000 Hz maximum

# C € EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

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

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





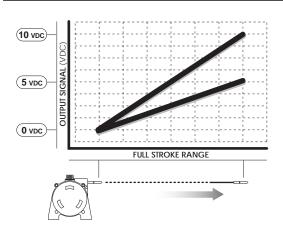
# EXTENDED RANGE



The PT9510 can operate from an unregulated 14.5 to 40 VDC power supply while providing a regulated output signal over it's full extended range of up to 1700". It provides a 0 - 10 VDC position feedback signal proportional to the linear movement of it's stainless steel measuring cable.

As a member of Celesco's innovative family of NEMA-4 rated cable-extension transducers, the PT9510 offers numerous benefits. It installs in minutes, functions properly without perfectly parallel alignment, and when its cable is retracted, it measures only 6".

### **Electrical Output Signal:**

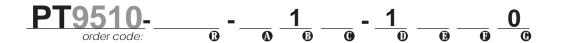


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# **▼** Ordering Information

## Model Number:



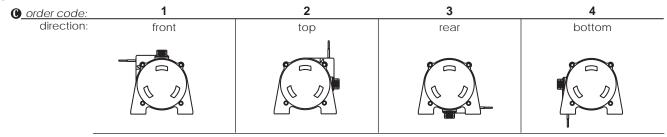
Full Stroke Range:

	® order code:	0600	0800	1000	1200	1500	1700
1	full stroke range, min:	600 inches	800 inches	1000 inches	1200 inches	1500 inches	1700 inches
	cable tension (±30%):	25 oz.	25 oz.	24 oz.	24 oz.	23 oz.	23 oz.
2	cable construction:	.034 nylon-coated stainless	.024 nylon-cc	ated stainless	.019 nylon-coated stainless	.015 stain	less steel
		0.190 in. (4.83 mm) dia. thru	0.190 in. (4.	83 mm) dia. thru	0.190 in. (4.83 mm) dia. thru	0.190 in. (4.8.	3 mm) dia. thru
		0.034 in. (0.86 mm) dia.	0.170 in. (4.32 m)	0.024 in. (0.61 mm) dia.	0.019 in. (0.48 mm) dia.	0.170 in. (4.32 mm	0.015 in. (0.38 mm) dia.

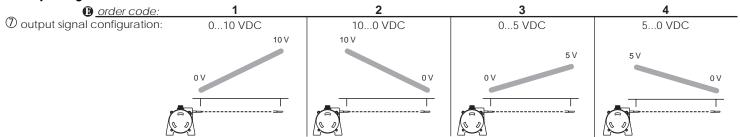
# **Enclosure Material:**

	<b>⚠</b> <u>order code:</u>	1	3
3	enclosure material:	powder-painted aluminum	303 stainless steel
4	maximum velocity:	60 inches per second	20 inches per second
(5)	max. retraction acceleration:	1 G	0.33 G

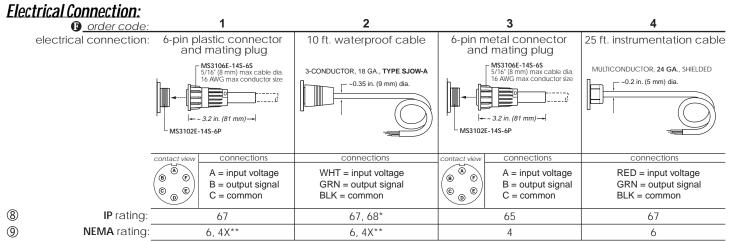
### Cable Exit:



# Output Signals:

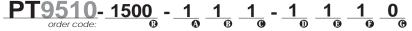


### PT9510 • Extended Range • Cable-Extension Transducer • 0...10 VDC Output Signal



note: \*requires factory submersion test

# **▼** Sample Model Number



Specifications: Full Stroke Range: 1500 inches

Enclosure Material: powder-painted aluminum

Measuring Cable: 0.015-in dia. stainless steel cable

Cable Exit: front

Output Signals: 0-10 VDC, output increasing with cable extension

Electrical Connection: 6-pin plastic connector

<sup>\*\*</sup>applies to stainless steel enclosure, see ®