# 0...5, 0...10, -5...+5, -10...+10 VDC Output Options Ranges: 0-600 to 0-1700 inches **Industrial Grade**

# <Extended Range> PT951

 $C \in$ 

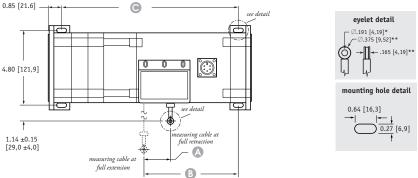
### **Specification Summary:**

| ELECTRICAL               |                                             |
|--------------------------|---------------------------------------------|
| Input Voltage            | 14.5-40VDC (10.5-40VDC for 0-5 volt output) |
| Input Current            | 10 mA maximum                               |
| Output Impedance         | 1000 ohms                                   |
| Maximum Output Load      | 5000 ohms                                   |
| Zero and Span Adjustment | see ordering information                    |

#### **ENVIRONMENTAL**

| Enclosure             | NEMA 4/4X/6, IP 67/68           |
|-----------------------|---------------------------------|
| 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**





| 4.90 [124,5] | - <b>0</b> | 0.25 [6,4]         |   | 5.16<br>[131,1] max. 4.70 ±0.<br>[120,7 ±: | 5.30 [134,6] |  |
|--------------|------------|--------------------|---|--------------------------------------------|--------------|--|
|              |            | — full stroke rang | e |                                            |              |  |

|            | 600 in.                  | 800 in.     | 1000 in.    | 1200 in.            | 1500 in.    | 1700 in.    |
|------------|--------------------------|-------------|-------------|---------------------|-------------|-------------|
| A          | 1.76 [44,7]              | 1.58 [40,1] | 1.98 [50,2] | 1.49 [37,8]         | 1.86 [47,2] | 2.11 [53,6] |
| <b>(3)</b> | 4.52 ±0.15 [114,8 ±4,0]  |             | 5.          | 46 ±0.15 [138,7 ±4, | 0]          |             |
|            | 10.40 ±0.08 [264,2 ±2,0] |             | 11          | .34 ±0.08 [288,0 ±2 | ,0]         |             |
| D          | 12.15 [308,6] max.       |             |             | 13.09 [332,5] max.  |             |             |

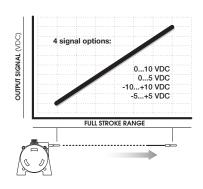
DIMENSIONS ARE IN INCHES [MM] tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

\* tolerance = +.005 -.001 [+.13 -.03] \*\* tolerance = +.005 -.005 [+.13 -.13]

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".

#### Output Signal



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

#### Ordering Information:

#### Model Number:

PT9510-\_\_\_\_\_\_ - \_\_\_ 1 \_\_\_\_ - \_ 1 \_\_\_\_ 0 \_\_\_ 0 \_\_\_ 0

Sample Model Number:

#### PT9510 - 1200 - 111 - 1110

A enclosure/cable tension: G cable exit:

500 inches aluminum front

(B) output signal: (P) electrical connection: 0...10 vdc 6-pin plastic connector

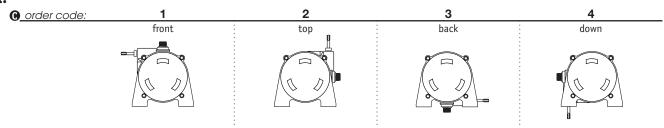
# Full Stroke Range:

| R order code:           | 0600          | 0800          | 1000          | 1200           | 1500          | 1700          |
|-------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
| full stroke range, min: | 600 in.       | 800 in.       | 1000 in.      | 1200 in.       | 1500 in.      | 1700 in.      |
| cable tension (±35%):   | 27 oz.        | 24 oz.        | 20 oz.        | 19 oz.         | 18 oz.        | 17 oz.        |
|                         | .034-in. dia. | .019-in. dia. | .019-in. dia. | .019-in. dia.  | .014-in. dia. | .014-in. dia. |
| measuring cable:        | nylon-coated  | nylon-coated  | nylon-coated  | nylon-coated : | nylon-coated  | nylon-coated  |
|                         | stainless     | stainless     | stainless     | stainless      | stainless     | stainless     |

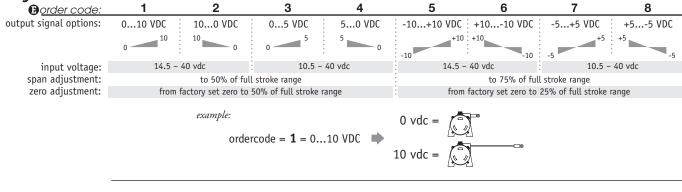
#### **Enclosure Material:**

| ♠ order code:       | 1                       | 3                   |
|---------------------|-------------------------|---------------------|
| enclosure material: | powder-painted aluminum | 303 stainless steel |
| max. acceleration:  | 1G                      | .33G                |
| max. velocity:      | 60 inches/sec.          | 20 inches/sec.      |

#### Cable Exit:

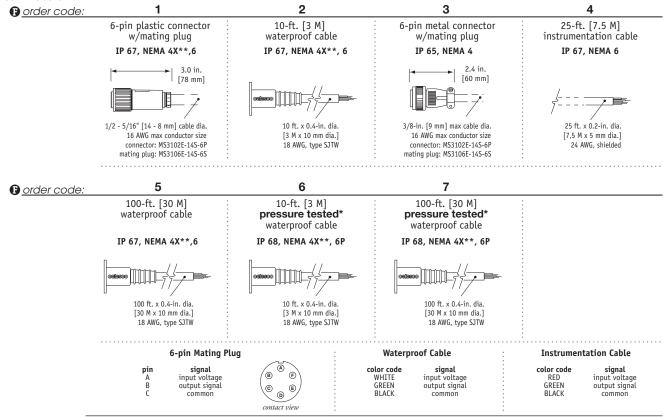


# **Output Signals:**



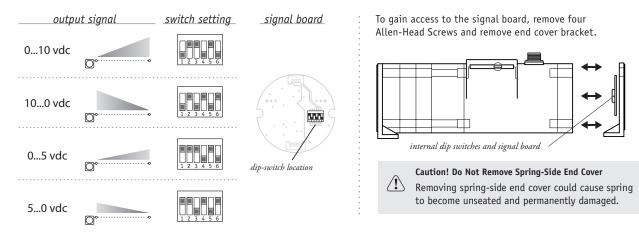
#### Ordering Information:





Notes:  $\begin{cases} * & -\text{Test pressure: } 100 \text{ feet } [30 \text{ meters}] \text{ } H_2\text{O} \text{ } (40 \text{ PSID}); \text{ Test Medium: Air; Duration: } 2 \text{ hours.} \\ ** & -NEMA 4X \text{ applies to stainless steel enclosure only.} \end{cases}$ 

### Output Signal Selection (does not apply to -5...+5 & -10...+10 vdc options)



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.

version: **6.0** last updated: **September 6, 2011** PT9510 Extended Range | 189

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