

Linear Potentiometer

Precision Potentiometric Output

Ranges: 0-1 to 0-11.5 inches [0-25 to 0-290 mm]

2.5K – 11.6K ohms • IP65

CLP

Specification Summary:

GENERAL

Full Stroke Ranges.....0-1 to 0-11.5 in. (0-25 to 0-290 mm)
 Output Signal voltage divider (potentiometer)
 Linearity..... ± 0.1 to 0.2% full stroke, *see ordercode*
 Repeatability0.01 mm
 Resolutionessentially infinite
 Life Expectancy.....> 25 million cycles
 Operational Speed300 ft. (10 M) per second max.
 Enclosure Materialaluminum
 Sensorconductive plastic linear potentiometer
 Weight3 - 7 oz. (87 - 197 g.), *see ordercode*

ELECTRICAL

Input Resistance2.5K to 11.6K ohms ($\pm 20\%$), *see ordercode*
 Recommended Maximum Input Voltage.....42 VDC
 Recommended Operating Wiper Current.....< 1 μ A

ENVIRONMENTAL

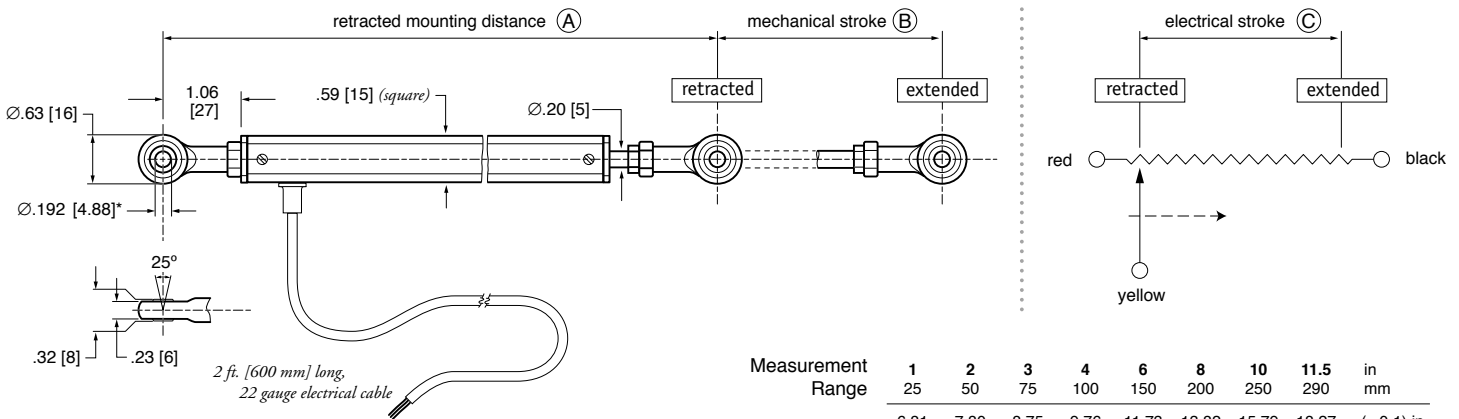
Enclosure Design.....IP65
 Environmental SealingO-ring and felt shaft seal
 Operating Temperature-40° to 212°F
 Vibrationup to 10 G's to 2000 Hz maximum



Developed specifically to meet the needs of the auto racing industry and proven in industrial applications, Celesco's CLP series position transducers offer unrivalled performance in terms of accuracy, repeatability, life expectancy and ease of mounting.

The combination of individually corrected conductive plastic elements and precious metal wipers provide a cost effective measuring system which can operate effectively without being unduly influenced by external environmental conditions.

Outline Drawing



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

*tolerance = +.030 -.000 [+0,76 -0,00]

Measurement Range	1 25	2 50	3 75	4 100	6 150	8 200	10 250	11.5 290	in mm
(A)	6.81 173	7.80 198	8.75 222	9.76 248	11.73 298	13.82 351	15.79 401	18.27 464	(± 0.1) in (± 2) mm
(B)	1.12 28.5	2.11 53.5	3.09 78.5	4.08 103.5	6.04 153.5	8.13 206.5	10.10 256.5	11.55 293.5	(± 0.02) in (± 0.5) mm
(C)	1.06 27.0	2.05 52.0	3.03 77.0	4.02 102.0	5.98 152.0	8.07 205.0	10.04 255.0	11.50 292.0	in mm

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