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

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
Repeatability...................................................... ± 0.01 mm
Resolution........................................................ essentially infinite
Life Expectancy................................................... > 25 million cycles
Operating Speed............................................... 400 inches (10 M) per second max.
Enclosure Material.............................................. aluminum
Sensor............................................................ conductive plastic linear potentiometer
Weight............................................................. 3 - 7 oz. (87 - 197 g), see ordercode

ELECTRICAL
Input Resistance.................................................. 2.5K to 11.6K ohms (±20%), see ordercode
Recommended Maximum Input Voltage ......................... 42 VDC
Recommended Operating Wiper Current ............................. < 1µA

ENVIRONMENTAL
Enclosure Design................................................ IP65
Environmental Sealing.......................................... O-ring and felt shaft seal
Operating Temperature........................................... -40º to 212ºF
Vibration.......................................................... up 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.

Ordering Information:

<table>
<thead>
<tr>
<th>Item Number</th>
<th>CLP-25</th>
<th>CLP-50</th>
<th>CLP-75</th>
<th>CLP-100</th>
<th>CLP-150</th>
<th>CLP-200</th>
<th>CLP-250</th>
<th>CLP-290</th>
</tr>
</thead>
<tbody>
<tr>
<td>measurement range, in. [mm]:</td>
<td>[125]</td>
<td>[50]</td>
<td>[75]</td>
<td>[100]</td>
<td>[150]</td>
<td>[200]</td>
<td>[250]</td>
<td>[290]</td>
</tr>
<tr>
<td>resistance, (±20%):</td>
<td>2.5K</td>
<td>5.0K</td>
<td>5.0K</td>
<td>5.0K</td>
<td>10K</td>
<td>10K</td>
<td>10K</td>
<td>11.6K</td>
</tr>
<tr>
<td>linearity, %:</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
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</tbody>
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