SP3
Low Cost String Pot

User Selectable Output: 4...20 mA or 0...10 Vdc
Absolute Linear Position to 50 inches (1.3 m)
40-inch electrical cable w/ sealed strain relief
Handy Mounting Bracket • Free Release Tolerant

The SP3 is a compact, economical stringpot that provides a user selectable 4-20 mA or 0-10 Vdc output signal. Simply install this sensor using the handy mounting bracket and connect the appropriate wires for the desired output. This can also be supplied with mating DIN plugs.

The SP3 is constructed with a rugged, water resistant polycarbonate body that has been compactly designed for tight spaces and generous measuring cable misalignment. With 4 different ranges, the SP3 is a perfect solution for many applications from light industrial to OEM. Just like all of our other SP and SE models, the SP3 is in stock ready to ship.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Item Number</th>
<th>full stroke range</th>
<th>accuracy (% of f.s.)</th>
<th>cycle life</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP3-4</td>
<td>4.75 in (120 mm)</td>
<td>1.00%</td>
<td>2.5M cycles</td>
</tr>
<tr>
<td>SP3-12</td>
<td>12.5 in (317 mm)</td>
<td>0.25%</td>
<td>500K cycles</td>
</tr>
<tr>
<td>SP3-25</td>
<td>25 in (635 mm)</td>
<td>0.25%</td>
<td>500K cycles</td>
</tr>
<tr>
<td>SP3-50</td>
<td>50 in (1270 mm)</td>
<td>0.25%</td>
<td>250K cycles</td>
</tr>
</tbody>
</table>

Output Signal:

4...20 mA*
0...10 Vdc*

*note: output signal endpoint tolerances

<table>
<thead>
<tr>
<th>Output Signal</th>
<th>0% fs.</th>
<th>100% fs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4...20 mA</td>
<td>4 – 4.25 mA</td>
<td>19.2 – 20 mA</td>
</tr>
<tr>
<td>0...10 Vdc</td>
<td>0 – .2 Vdc</td>
<td>9.5 – 10 Vdc</td>
</tr>
</tbody>
</table>
**SP3 Series String Potentiometer**

**Electrical Connection:**

- 0...10 Vdc
- 4...20 mA
  - (red) 12...32 Vdc
  - (grn) 0...10 Vdc
  - (blk) common

**Output Signal Options:**

- 4...20 mA
  - red
  - black
  - 4–20 mA
  - return

- 0...10 Vdc
  - red
  - green (n/c)
  - 0–10 Vdc
  - common

**Outline Drawing (w/o bracket):**

- All dimensions are in inches (millimeters)
- Electrical Cable, 24 GA, 3 conductor, shielded, 40 in. (1 meter) long

**Mounting Options:**

- Mounting holes: 2x Ø.144 (3.7) thru Ø.125 (3.18) thru Ø.101 (3.96) thru Ø.75 (1.91)

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