Single-Turn Wirewound Potentiometers

PD280 Series

Special features
• very small dimensions
• 200 x 10⁶ movements
• excellent linearity ±0.6%
• very robust

Precise potentiometer with a wirewound resistance element for control electronics and measuring applications.

Recommended for applications in harsh environments requiring a sealed potentiometer, the PD280 Series combines extraordinarily high media resistance and robust engineering.

Careful selection of materials and high-quality components ensure a constant and accurate angle measurement throughout the entire service life of the sensor.

Special designs with other shaft dimensions and connections are available on request.

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Size</td>
<td>housing diameter 20 mm</td>
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<tr>
<td>Housing</td>
<td>high-quality, temperature-consistent plastic</td>
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<tr>
<td>Shaft</td>
<td>brass, nickel plated</td>
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<tr>
<td>Bearings</td>
<td>sleeve bearings</td>
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<tr>
<td>Resistance element</td>
<td>wirewound</td>
</tr>
<tr>
<td>Wiper assembly</td>
<td>precious metal</td>
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<tr>
<td>Electrical connections</td>
<td>gold plated</td>
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</tbody>
</table>
Order designations / Abbreviations
4A: connecting pin, radial
MB: bushing M10 x 0.75, axis Ø 6 mm

Included in delivery
1 nut M10 x 0.75
1 serrated washer 3/8"

Recommended accessories
Fork coupling Z 104 G6, Art. no. 005690;
Fork coupling Z 105 G6 (back-lash-free), Art. no. 005691,
MAP process-control indicators and display. MUP signal conditioner for standardized output signals.

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Important
All values given for this series – including linearity, lifetime, micro-linearity, resistance to external disturbances and temperature coefficient in voltage dividing mode – are quoted for the device operating with the wiper voltage driving an operational amplifier working as a voltage follower where virtually no load is applied to the wiper (le ≤ 1 µA).