Special features
- extremely low torque - 0.003 Ncm
- exceptionally long life - to 100 million movements
- excellent linearity - standard ±0.1 %
- very good repeatability better than 0.01°
- single integrated main bearing
- shaft with screwdriver slot and marking
- unrestricted continuous rotation
- sealed to IP50

The P2200 has an exceptionally low operating torque requirement. This makes it suitable for applications where the system to be measured can be affected by the torque requirements of the sensor.

It offers a precision conductive plastic potentiometer in a servo size 11 housing with stainless steel bearing.

The standard version P2201 A502 has a nominal resistance of 5 kΩ.

Special versions with different electrical travels are available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>servo size 11</td>
</tr>
<tr>
<td>Case</td>
<td>two-parts, flange anodized aluminium, cover high-grade temperature-resistant plastic</td>
</tr>
<tr>
<td>Shaft</td>
<td>stainless steel with screwdriver slot and marking</td>
</tr>
<tr>
<td>Bearings</td>
<td>stainless integrated steel ball bearings, dust protected</td>
</tr>
<tr>
<td>Resistance element</td>
<td>conductive plastic</td>
</tr>
<tr>
<td>Wiper assembly</td>
<td>precious metal multi-finger wipers</td>
</tr>
<tr>
<td>Electrical connections</td>
<td>terminals gold-plated brass</td>
</tr>
</tbody>
</table>
Mechanical Data

Dimensions  
Mounting  
Mechanical travel  
Permitted shaft loading  
static or dynamic force  
Maximum operating torque  
Maximum operational speed  
Weight

Electrical Data

Actual electrical travel  
Nominal resistance  
Resistance tolerance  
Repeatability  
Effective temperature coefficient of the output-to-applied voltage ratio  
Independent linearity  
Max. permissible applied voltage  
Recommended operating wiper current  
Max. wiper current in case of malfunction  
Insulation resistance (500 VDC)  
Dielectric strength (500 VAC, 50 Hz)

Environmental Data

Temperature range  
Vibration  
Shock  
Life  
Protection class

Included in delivery

3 clamps Z1-11

Recommended accessories

Fork coupling Z 103 G 3 (backlash free), MAP process control indicators with display MUP/MUK signal conditioners for standardized voltage and current output signals.

Important

All the values given in this data sheet for linearity, lifetime and temperature coefficient in the voltage dividing mode are quoted for the device operating with the wiper voltage driving on operational amplifier working as a voltage follower, where virtually no load is applied to the wiper (I <= 1 μA)

Order designations

Type  
P/N  
P-2201-A502 002203

Type designations for non-standard models will be specified upon receipt of order.