Inductive measuring probes

DESCRIPTION

• Inductive measuring probes specially designed for measurement by comparison
• Available in 2 versions: spring push and pneumatic push
• Long life precision bearing guidance (tested up to 13 million cycles)
• Resolution <0.0001 mm
• Repeatability 0.15 µm
• Measuring range +/- 2mm and +/- 5 mm
• Compatible with D300SV2, D70i and D400S units through M-Bus multiplexer units
• High data speed
• Operating temperature +5 to +80°C
• IP65 protected

Silicone rubber boot
Machined from solid, hardened stainless steel (series 400)
Metallic holder which allows 90º output, with accessory
Measuring anvil
Interchangeable contact point
M2.5, stainless steel with TC ball
Long life precision bearing guidance
Clamping stem Ø 8-h6
Pneumatic tube connector on version P
Inductive measuring probes

DIMENSIONAL DRAWINGS

P2i

P2P

PSi

PSiP

Inductive measuring probes

DIMENSIONAL DRAWINGS

P2i

P2P

PSi

PSiP
Inductive measuring probes

TECHNICAL SPECIFICATIONS

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<th>P2iP</th>
<th>P5i</th>
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</thead>
<tbody>
<tr>
<td>Travel (mm)</td>
<td>±2</td>
<td>±2</td>
<td>±5</td>
<td>±5</td>
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<tr>
<td>Pre-travel (mm)</td>
<td>0.15</td>
<td>0.8</td>
<td>0.15</td>
<td>0.3</td>
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<tr>
<td>Post-travel (mm)</td>
<td>1.35</td>
<td>1.2</td>
<td>0.85</td>
<td>0.7</td>
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<tr>
<td>Resolution</td>
<td>Digital: user selectable to &lt;0.1µm</td>
<td></td>
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<tr>
<td>Repeatability (µm)</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Moving mass (g)</td>
<td>3.4</td>
<td>3.4</td>
<td>3.7</td>
<td>3.7</td>
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<tr>
<td>Accuracy of reading (%)</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>Body diameter (mm)</td>
<td></td>
<td>8h6</td>
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<tr>
<td>IP rating</td>
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<td>IP65</td>
<td></td>
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</tr>
<tr>
<td>Temperature (%FS/°C)</td>
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<td>0.01</td>
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MEASURING FORCE

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<tr>
<td>Standard (N)</td>
<td>0.7</td>
<td>0.7 / 0.4 bar - 2.6 / 1 bar</td>
<td>0.7</td>
<td>0.7 / 0.4 bar - 2.6 / 1 bar</td>
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Tolerance ± 20%, measuring probe in middle course, outgoing spindle.

PNEUMATIC PROBES

Pneumatic probes are fully retracted when they are not supplied with air. For continual reliable operation and to maximise working life, the air supply should be clean and dry. 60% maximum relative humidity, filtered to better than 2µm particle size. Air pressure: 0.4-0.8 bar, don’t go over 0.8 Bar because the rubber boot can be damaged.

LIST OF REFERENCES

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<td>P2i</td>
<td>900.1101</td>
<td>P5i</td>
<td>900.1112</td>
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<td>900.1102</td>
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P = pneumatic push
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BASIC INSTRUMENT

- Probe according to technical specifications
- Cable 2 m
- Stainless steel contact point with tungsten carbide ball Ø 3 mm (905.2204)
- Calibration certificate

APPLICATIONS

Inductives probes connected to a D70I. Inductives and Solartron probes connected to a M-Bus modul coupled with D400S. Inductives probes connected to a M-Bus modul coupled with D300S.