Touch Probe **TC54-10**

- Workpiece Measurement
- Tool Measurement
- Infrared Transmission
- shark360 Technology
- Wear-free Measuring Mechanism
- Single & Mass Production
- Axes Compensation
- Pulling Measurement
- Tool Length Measurement
- Tool Radius Measurement
- Tool Breakage Detection
Compact touch probe with revolutionary shark360 measuring mechanism

- Workpiece measurement and tool setting in turning and milling machines
- Application in turret
- Pulling measurements

Your benefit:
- Measuring speed up to 2 m/min
- Superior precision due to patented shark360 measuring mechanism
- No-wear, optoelectronic measuring mechanism
- Use of two measuring systems with one IR receiver
- Extended battery life
- Shortened design
- Precise measurement even with coolant
- Proven and robust design

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP68</td>
</tr>
<tr>
<td>Approach direction</td>
<td>±X, ±Y, ±Z</td>
</tr>
<tr>
<td>Measuring force in XY</td>
<td>Z</td>
</tr>
<tr>
<td>Measuring force (LF) in XY</td>
<td>Z</td>
</tr>
<tr>
<td>Max. deflection in XY</td>
<td>Z</td>
</tr>
<tr>
<td>Max. probing speed</td>
<td>2 m/min</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.4 μm 2σ</td>
</tr>
<tr>
<td>Max. acceleration</td>
<td>50 m/s²</td>
</tr>
<tr>
<td>Mass</td>
<td>230 g</td>
</tr>
<tr>
<td>Signal transmission</td>
<td>Range</td>
</tr>
<tr>
<td>Battery (2 pieces)</td>
<td>Saft Lithium LS14250 , (½ AA, 3.6 V) 1200 mAh</td>
</tr>
<tr>
<td>Tool holder</td>
<td>BTH 25 (HSK, SK, BT, VDI, ...)</td>
</tr>
</tbody>
</table>

* Stylus L = 30 mm/50 mm/75 mm/100 mm  LF: Low Force

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Delphi electronic systems

DUO-Mode
Sequential use of two measuring systems with one infrared receiver.