



## Z-Pico Tool Setting Probe



### Tool Measurement



Hardwired



Linear Working Principle



Wear-Free Measuring Mechanism



Tool Breakage Detection



Tool Length Measurement



Axes Compensation



Tool Setting Probe Z-Pico

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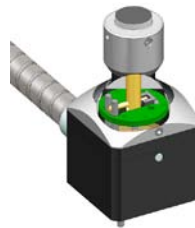
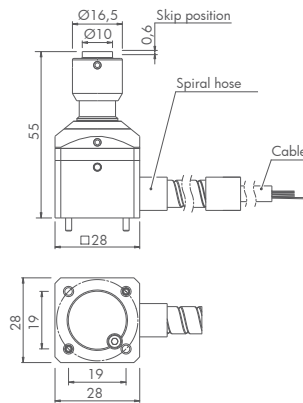
## Z-Pico | Tool Setting Probe | Tactile tool setting system with cable connection

### Ultra-compact and extremely precise – tool setting probe with linear working principle of monitoring the smallest tools in micro-machining applications

- Tool breakage detection
- Tool length measurement
- Thermal compensation of the machine tool

#### Your benefit:

- Extremely fast tool breakage detection
- No subsequent damage due to tool breakage
- Fast ROI
- No-wear optoelectronic measuring mechanism
- Compact and robust design



Fast tool breakage detection



Tool length measurement

#### Linear working principle

Due to the linear working principle the probe provides a minimal and torque-free measuring force. Even the most sensitive and smallest tool diameters can be measured extremely precise.



Extremely low measuring force enables the measurement of most sensitive tools

#### Technical data

Protection class	IP67
Power Supply	U <sub>B</sub> = 12-30 V stabilized direct voltage / 100 mA
Output	12-30 V / 50 mA
Approach direction	-Z
Measuring force	1,7 N   with chip protection: 1,8 N
Max. stroke	5 mm
Trigger point	0,6 mm
Repeatability	1 µm 2σ
Mass	600 g (incl. 10 m cable)
Max. probing speed	1 m/min
Min. tool diameter	> 0,05 mm*
Storage/Operating temperature	-20 °C ... -70 °C   +10 °C ... +50 °C

\* Depending on tool geometry and material, probing force must not result in damage of tool.

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