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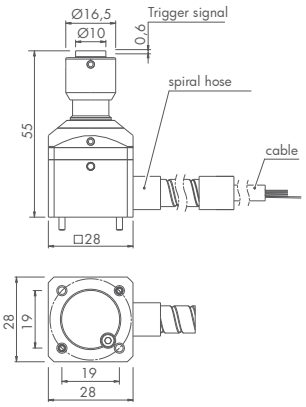
Z-Pico | Tool Setting Probe | Tactile tool setting system with cable connection

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

- Tool breakage detection
- Tool length measurement
- Axes compensation

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_B = 12 – 30V stabilized direct voltage / 100 mA
Outputs	12 – 30V / 50 mA
Approach direction	-Z
Measuring force	0,9 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

* Measuring force with chip protection & additional spring: see operating instructions
** Depending on geometry and material of tool, Probing force must not result in damage of tool

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