



## Z-Pico Tool Setting Probe



Tool Measurement



Hardwired



Linear Working Principle



Wear-free Measuring Mechanism



Tool Breakage Detection



Tool Length Measurement



Axes Compensation



BLUM CE  
P83.0175-048  
S-No.: 201115220  
www.blum-novotest.com

## Tool Setting Probe Z-Pico

**BLUM**  
focus on productivity



## 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

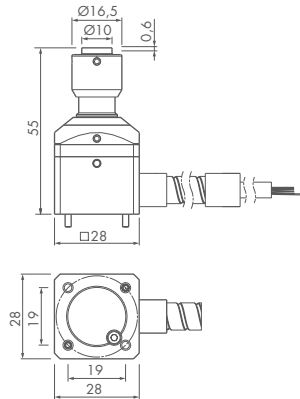
- Tool breakage detection
- Tool length measurement
- Machine axes compensation

#### 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

#### 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.



Fast tool breakage detection



Tool length measurement



Extremely low measuring force enables the measurement of most sensitive tools

#### Technical data

Protection class	IP67
Power supply	$U_B = 12 \dots 30$ V stabilized direct voltage/100 mA
Outputs	12 ... 30 V/50 mA
Approach direction	-Z
Measuring force	0.9 N
Max. stroke	5 mm
Trigger point	0.6 mm
Repeatability	1 $\mu$ m 2 $\sigma$
Mass	600 g (incl. 10 m cable)
Max. probing speed	2 m/min
Min. tool diameter *	> 0.05 mm

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

**BLUM**  
focus on productivity

#### Blum worldwide Service & Support

More than 40 subsidiaries and service offices.

[www.blum-novotest.com](http://www.blum-novotest.com)

#### Blum-Novotest Ltd.

Unit 15 Granary Wharf Business Park  
Wetmore Road, Burton upon Trent  
Staffordshire, DE14 1DU  
United Kingdom  
Phone: +44 1283 569691  
Fax: +44 1283 563687  
[info@blum-novotest.co.uk](mailto:info@blum-novotest.co.uk)

#### Blum-Novotest, Inc.

4144 Olympic Boulevard  
Erlanger, KY 41018  
USA

Phone: +1 (859) 344 6789  
Fax: +1 (859) 344 6799  
[solutions@blum-novotest.us](mailto:solutions@blum-novotest.us)