



T18

TOOL CHECK PROBE



MARPOSS

Description of the system

T18 is a compact touch probe used for tool inspection and monitoring applications on lathes, where it is typically installed on a MIDA tool setting arm, in order help to reduce the quantity of rejects caused by tool breakages that would otherwise not be detected during unmonitored machining processes

In particular, it performs the following checks:

- determines the geometry of the tool (R;L);
- compensates for tool wear, optimising working life;
- checks for axial breakage, in order avoid the risk of damaging the work piece and the machine, and the resulting loss of production time

Advantages

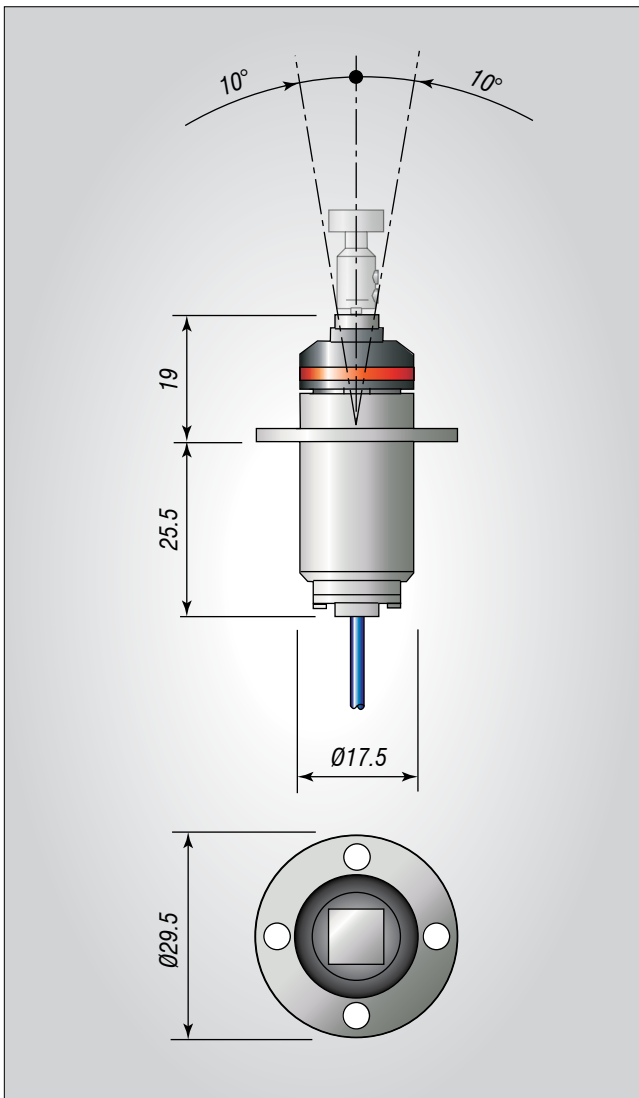
- Increased quality in the production process thanks to the reduced number of rejects
- Reduced pre-setting time
- Speed and accuracy of tool setting
- Precise measurements with drift and wear correction
- Extremely resistant even under the most challenging machining conditions



T18 touch probe

The compact T18 probe is ideal for use on lathes, and permits the user to monitor the part dimension tolerances by measuring and checking the integrity of the tools.

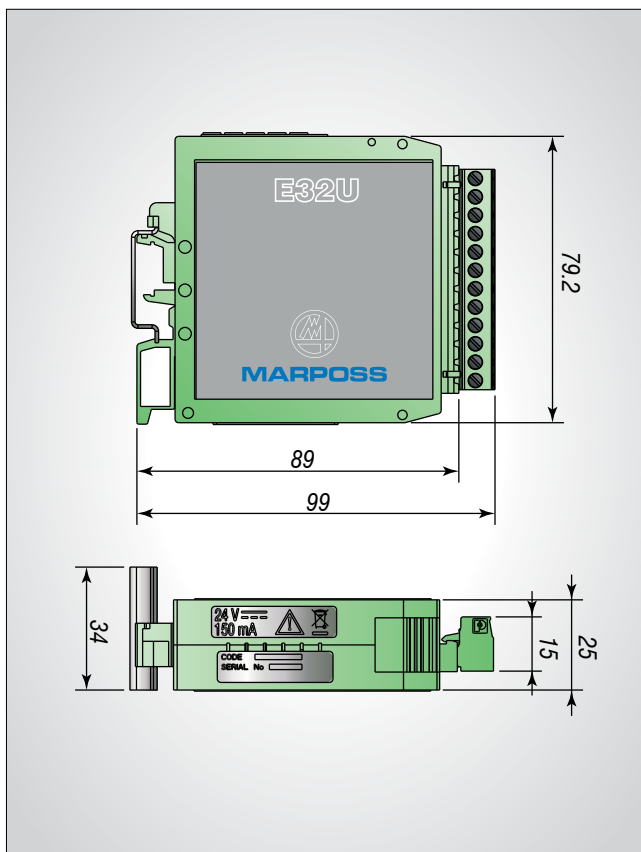
The probe is designed to be used with the E32U interface. In the case of arm-mounted applications, it is used together with the E32A interface.



PROBE AXES WITH STRAIGHT STYLUS:	$\pm X, \pm Z$	
UNIDIRECTIONAL REPEATABILITY (2σ) <i>with 20 mm stylus and speeds of up to 600 mm/min</i>	1 μm	
MEASUREMENT FORCE	<i>radial</i>	1.5 N
	<i>axial</i>	1 N
OVERTRAVEL	10°	
CABLE LENGTH	8 m	
INGRESS PROTECTION RATING <i>(IEC 60529)</i>	IP67	

E32U interface

E32U is a standard MarpoSS interface for hard wired application that receives and process the signal from the probe and relays it directly to the machine tool CNC. The probe status information (probe status, power supply and error) are constantly show by 3 coloured LED. Furthermore, thanks 5 external switches, the application set up is easy and quickly adjustable without waste of time.



POWER SUPPLY	24 Vdc unstabilized 12-30 V dc
CONSUMPTION	150 mA max
OUTPUT SIGNALS	Solid state relay (SSR) ± 30 V max ± 100 mA max
EXTERNAL LEDS	Max current 5 mA
INGRESS PROTECTION RATING (IEC 60529)	IP20

System part numbers

3419825010	T18 probe	
8303290081	E32U interface	
2919825040	Adjustable support for lathes	
1019825075	Shear pin	



www.marpoSS.com

For a full list of address locations, please consult the MarpoSS official website

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