





PROBE FOR TOOL CHECK ON LATHES AND MACHINING CENTRES

The T18 is a compact touch probe for tool checking applications on NC lathes and machining centers. It can be used for:

- tool breakage detection, preventing possible damages to the part and the machine and consequent breakdowns in production
- tool offset determination, saving setup time and eliminating the need for off-machine tool presetting
- tool wear compensation, optimizing the tool lifetime

Technical specifications	release for lathe	release for m/c
Probe axes with straight stylus	±X, ±Z	
Unidirectional repeatability (20) at speed up to 600 mm/min	1 μm	
Trigger force on XZ plane	1,5 N	
Overtravel on axis	X = 5,5 mm	X/Y = 5.5 mm
Overtravel on axis	Z = 5,5 mm	Z = 5,2 mm
Cable lenght	8 m	
Protection degree IEC standards	IP 67	

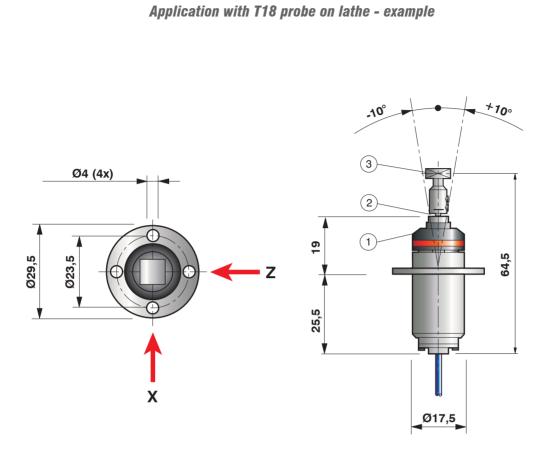
Above characteristics refer to a 20 mm straight stylus

Features

- Excellent repeatability
- Cycle time reduction
- Insensitivity to machine vibrations
- High protection against coolant
- High reliability



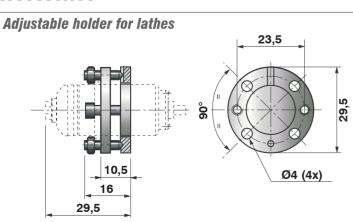
Probe for tool presetting on lathes



The probe is usually mounted on a removable arm, either manual or automatic.

Description		Code	
1	T18 probe	3419825010	
2	Crash protection pin	1019825075	
3	Straight stylus	tip 10x10x4 3191982502	
		tip 20x20x4 3191927855	

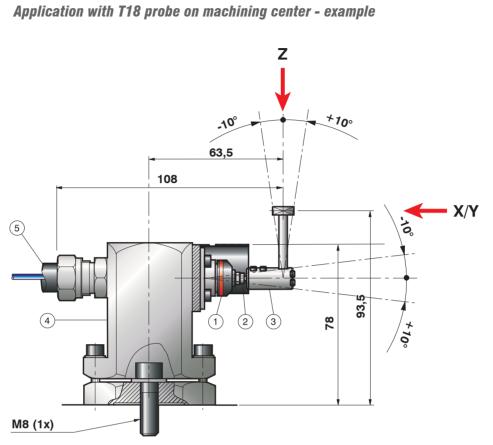
Accessories



The holder is fastened to the machine by means of the four fixing screws. By acting on two couples of screws, it is possible to pivot the holder and allow the probe adjustment.



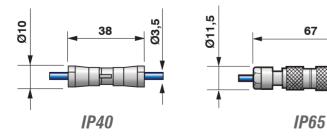
Probe for tool presetting on machining center



The probe is usually fixed to a holder, on the machine table beside the working area.

Descrizione		Descrizione	Codice	
	1	T18 probe	3419825010	
	2	Crash protection pin	1019825075	
	Crankad atulus	tip 10x10x4	3191982506	
	3 Cranked stylus	tip Ø15x3	3191982508	
	4	Adjustable holder	2919825020	
	5	Cable flexible protective sheath	4152606101	

Connectors



IP40	male	4140Q03100
11740	female	4140Q03300
IDec	male	6872010001
IP65	female	6872010002



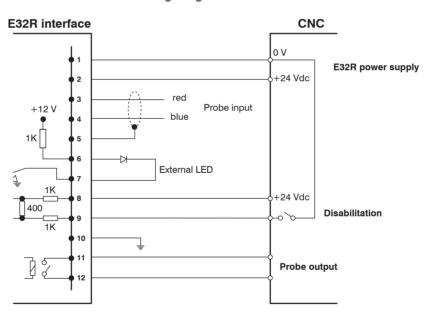
E32R electronic interface

Technical specifications

Power supply	24 Vdc not stabilized
Absorption	50 mA max
Response time to touch	35 μs ± 10 μs
Probe signal	solid state relais ±50 V peak ±40 mA peak
External LED	nominal current 10 mA
Programmability	NO / NC
Protection degree (IEC standards)	IP 20



Wiring diagram





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