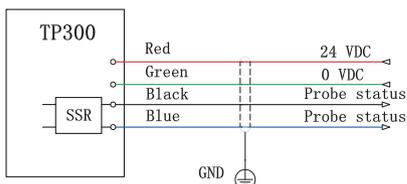
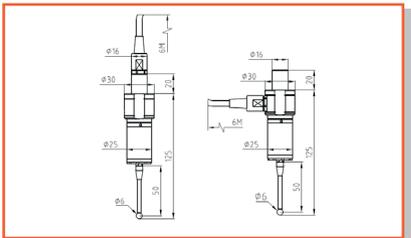
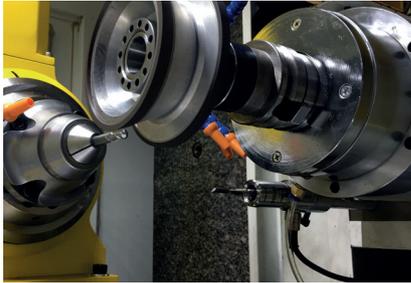


## Composition of Probe

TP300 series of cable probe consist of three pieces:

- 1) TP300 trigger probe;
- 2) HPI-A16 (axial outlet) or HPI-R16 (radial outlet) probe shank containing the probe's interface and cable;
- 3) Stylus(standard model: M4-P50-RB6-S36A)



## Application

- ◆ Setting work-piece coordinate system and machining zero points automatically before processing;
- ◆ Detect and control the key dimensions, position coordinates and their precision automatically between two processes;
- ◆ Detect precision of the key dimensions, shapes, position after processing.
- ◆ Applicable equipments: various specifications of CNC grinding machines, CNC lathes and specially measuring devices.



## Technical Parameters

- 1) The technical parameters of TP300 trigger probe :
  - ◆ Stylus sensing direction:  $\pm X, \pm Y, +Z$ ;
  - ◆ Stylus sensing over-travel :  $X-Y \pm 12^\circ, Z +5 \text{ mm}$ ;
  - ◆ The trigger force in Z direction: 1000 g;
  - ◆ Trigger force in X-Y surface ( standard stylus ) : 100-160g;
  - ◆ Unidirectional repeatability ( $2\sigma$ ) :  $\leq 1 \mu\text{m}$ ;
  - ◆ Seal grade: IP68.
- 2) The technical parameters of probe's interface:
  - ◆ Input voltage is  $24\text{V} \pm 10\%$  (DC) and output load current is 50 mA.
  - ◆ Seal grade: IP68.

## Technical Characteristics

- ◆ The signal interface of probe is integrated inside the probe shank, and the trigger signal is transmitted by cable;
- ◆ By changing the power supply's polarity at the probe interface, the logic state of the output signal can be reversed;
- ◆ The stylus connector of the probe is protected by double layers of rubber seal.

## Applicable equipment

- ◆ Various specifications of CNC grinding machines, CNC lathes and special measuring devices
- ◆ Probe with ruby ball stylus and protector rod, commonly used in milling machines and cylindrical grinding machines
- ◆ Probe with a profiled stylus, often used in tool grinding machines.