

## Wired probe SLP25 manual



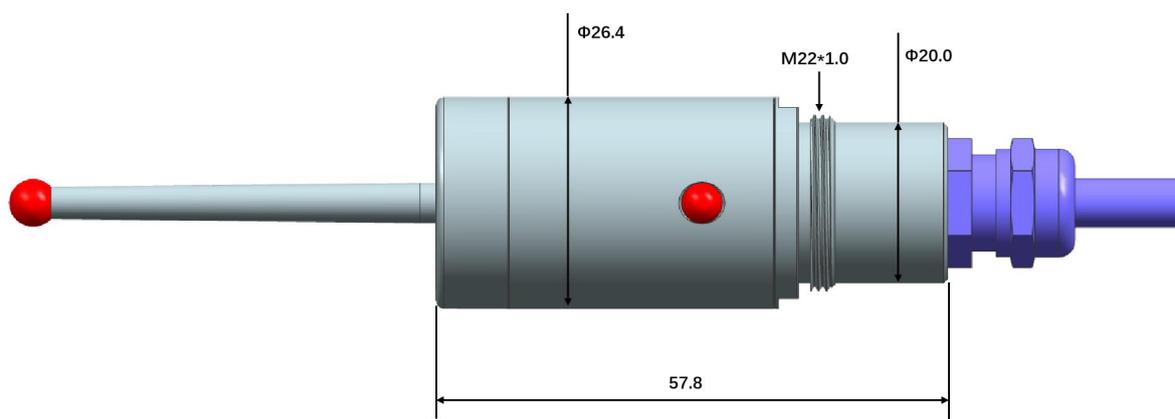
## Product profile

SLP25 series probe is a special online measurement system for the precision engraving machine and CNC machining center. The cable transmission signal to the CNC machine in real time. Probe touch trigger measuring signal output to the CNC system in real time through cable, with the special macro program to achieve the automatic measurement.

## Basic

Principle of the probe is the same as Renishaw brand, Three equally spaced rods rest on six tungsten carbide balls to provide six points of contact. Under load of the spring, contact patches are created between the balls and the rods through which the electrical current flows. Upon making contact with (touching) a workpiece, the force translated through the stylus moves the balls and rods apart thus reducing the size of the contact patches and increasing their electrical resistance. When a defined threshold is reached the probe is triggered.

## Dimensions



## Specifications

Model	SLP25	
Unidirectional repeatability Use standard 50mm probe at 60mm/min speed	1um (2σ)	
Sense directions	±X,±Y,+Z	
Stylus trigger force Use standard 50mm probe	XY plane 0.4 - 0.8N	Z direction 4.0N
Trigger protection trip	XY plane +/-15°	Z direction 6.35mm
Signal transmission method	Hard wired	
Trigger life	>10 Million	
Transmission on/off style	NO	
Weight without shank (including batteries)	80g	
Hard wire	5m, oil resistance, 4 core	
Sealing	IP68	
Operating temperature	0-60°C	

## Circuit diagram

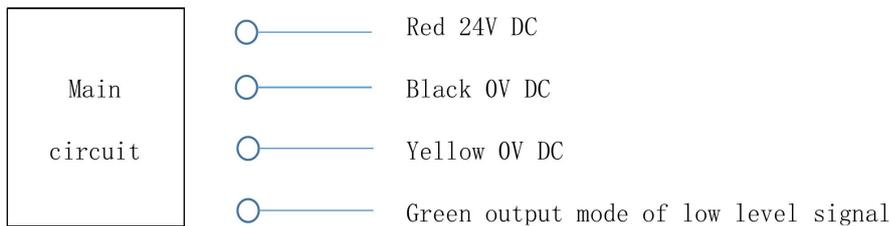
A: output mode of high level signal:

### Electrical circuit diagram



## B: output mode of low level signal:

### Electrical circuit diagram



## Installation precautions

### (1) Mechanical

1. Please try to install it on the workbench where there is less iron filings.
2. Install the wired probe correctly before using it.
3. It is recommended to install it on the bracket with cylinder lifting system, and ensure the induction switch with reset position, to ensure that the wired probe can be lifted during reset or machining, and protect the safety of the wired probe.

### (2) Electrical

- 1 Use it within the rated power supply range (12-30VDC).
  - 2 The support must be grounded or shielded.
- Signal: contact structure normally open (NO).

## Installation and replacement of styli

1. In order to avoid damage of probe and styli during transportation, Before delivery and transportation, our company has removed and unloaded the styli from the probe and packaged it separately. Therefore, after receiving the probe, please install the probe according to the following instructions.
2. When installing the measuring pin, use a special wrench; Screw the styli into the tool holder. When the styli is screwed to the fixed position, properly tighten it with the matching wrench.
3. The wired probe of the SLP25 supports various styli with M4 coarse thread. If you need to replace the styli, follow the preceding instructions to remove and install the styli

## **Guarantee**

1. If the instrument is damaged, please take good care of it for the maintenance certificate.
2. The warranty period shall be 12 months from the date of purchase, and any problem within 15 days will be guaranteed.
3. In the case of normal use and maintenance of the product within the warranty period, if the material and process of the fuselage has problems or faults, the company will provide free repair and replacement of parts upon verification.

### **Not free under the following circumstances:**

1. Probe is damaged due to improper installation and operation
2. Disassemble the product, modify and replace the internal parts
3. Water, oil and other substances infiltrate into the machine and cause damage due to negligent use
4. Failure or damage caused by natural disasters