## **STP-42 Cable Probe**

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#### **Composition of Probe**

STP-42 cable probe consist of three pieces:

- 1) STP-42 trigger probe unit;
- 2) One four-core, oil proof shielded cable with aviation plug at one end.
- 3) Stylus.



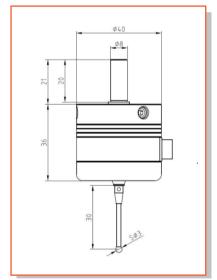


#### **Technical Parameters**

- lack Stylus sensing direction:  $\pm X$ ,  $\pm Y$ , +Z;
- ◆ Stylus sensing over-travel: X-Y±12°, Z+5 mm;
- ♦ Unidirectional repeatability  $(2\sigma)$  : ≤ 2 μm;
- ◆ Input voltage is 24V±10%(DC) and output load current is 50 mA.
- ◆ Seal grade: IP 68.

# **Technical Characteristics**

- ◆ The signal interface of probe is integrated inside the probe, 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.
- ◆ The probe uses cable with aviation plug to transmit signals , which can be quickly installed and discounted, providing convenience for the application of the probe in different equipments.



# STP42 Red Black Green Probe status GND

### **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.