

Clamping Force Transmitter Manual

1. Product Description

Switch contacts are applied to every field of the national economy. Due to electric stress and aging to the switch contact, the electric power accident happens every now and then. The clamping force sensor we built for switch contact is very useful and widely used as long as the fields need switch contacts.

2. Main Structure And Working Principle

This product adopts the design of up-down symmetrical strain sensor, and the double Wheatstone bridge constitutes the measuring bridge. A force measuring tray is installed at the center of the plane of the sensing head for the detection of clamping force. The output linearity of the test clamping force sensor is better than 0.5% FS, and the full scale is 120N, which can realize the measurement of the clamping force of the switch contact.

3. Performance

Range: 1~120N

Sensor head size: 20mm×12mm×6mm (thickness 6mm)

Supply Voltage: 5V~12V

Input / Output impedance: 1.3k Ω

Output sensitivity: (1.5 ± 0.3) mV/V

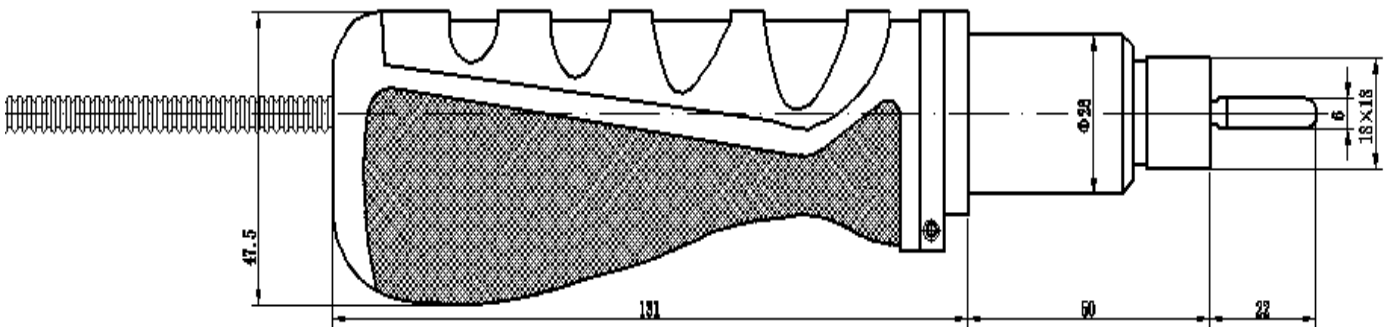
Accuracy: 1%FS

Annual stability: 0.5%FS

4. Application

It is used to measure the clamping force of switch contacts of Siemens abb, 8pt and Great Wall GCK switchgear, and detect the reliability of switch clamping.

5. Product Outline Drawing



6. Instructions

Connect the measuring instrument at the end of the wiring to turn the voltage signal into a standard clamping force display.