SUNMOON
日月科技

SM46E Pull Force Sensor

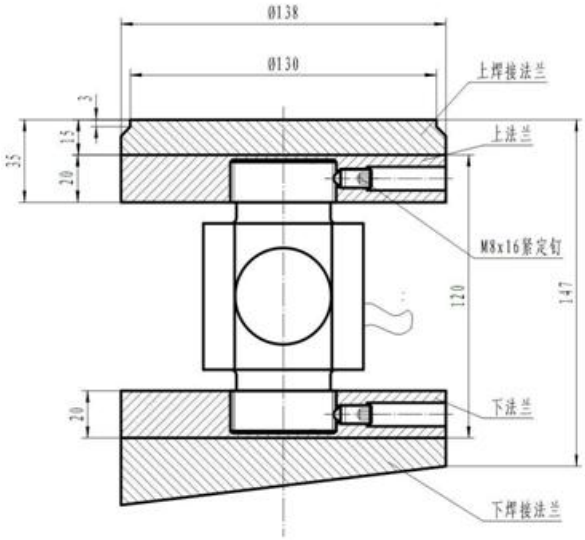
1. Description

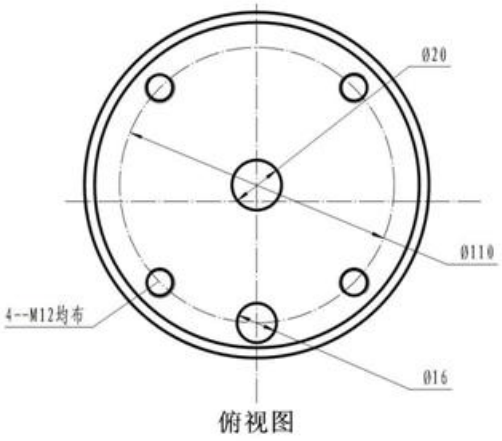
The SM46E pull force sensor adopts an alloy steel structure, which is simple and has strong resistance to eccentric loading. Waterproof, high measurement accuracy, stable and reliable performance and easy to install. It is widely used in force measurement and weighing systems of various cement silos, belt scales, hopper scales, dry-mixed mortar, oil tanks and various engineering devices, etc.

2. Characteristics

- Simple structure.
- Strong resistance to eccentric loading.
- High measurement accuracy.
- Stable performance.

Dimensions（In mm. 1mm=0.03937 inches）





俯视图

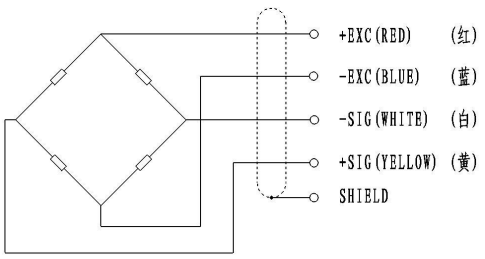
Circuit Diagram：

Red: ＋input

Blue: -input

White: +output

Yellow: -output



Specification：

Type	Technical parameters
Nominal load range	5～30t
Power supply	10~12 VDC
Drawing current	<100 mA
Zero balance	1.0±% of rated output
Analog output	2.0±0.015mV/V
Input resistance（Rlc)	380±10Ω（ohms）
Output resistance（Ro)	350±5Ω（ohms）
Insulation resistance	≥5000 MΩ（Mege-Ohms）
Class precision	0.3%FS
Effect of temperature	0.3%FS/10℃
Operating temperature	-40～+85℃
Safe Load Limit	200% FS
Safety margin against yielding	300% FS
Safety margin against breakage	500% FS
Material material	High performance alloy steel or (chromium ratio>15% stainless steel)
Protection type	IP67/IP68