SM-P23A Load Pin

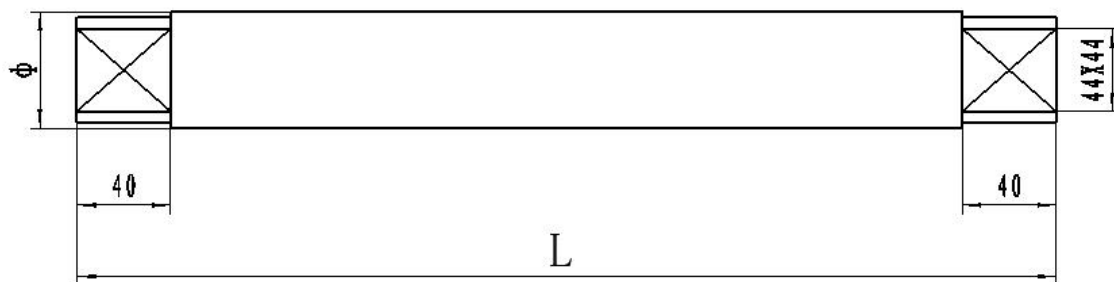**Description：**

The SM-P23A load pin has a simple structure and strong anti-eccentric load capacity. High measurement accuracy; Stable and reliable performance; Easy to install. It is widely used in force value detection equipment.

Characteristics：

- Simple structure
- strong anti-eccentric load capacity.
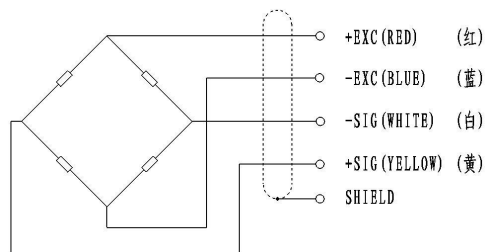- High measurement accuracy and stable performance.

Dimensions（In mm. 1mm=0.03937 inches）

Φ and L (Depends on actual application)

Circuit Diagram：

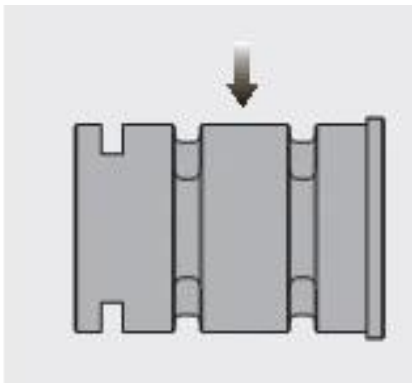Red:　　＋input

Blue:　　−input

White:　　+output

Yellow:　−output

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+EXC(RED)    (红)
-EXC(BLUE)   (蓝)
-SIG(WHITE)  (白)
+SIG(YELLOW) (黄)
SHIELD
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Specification：

Type	Technical parameters
Nominal load range	0～5t
Power supply	10~12 VDC
Drawing current	<100 mA
Analog output	1.0±0.015mV/V
Class precision	0.5%F.S
Effect of temperature	0.5%FS/10℃
Operating temperature	-40～+85℃
Safe Load Limit	200% F.S
Safety margin against yielding	300% F.S
Safety margin against breakage	500% F.S
Material material	High performance alloy steel or (chromium ratio>15% stainless steel)
Protection type	IP67　(IEC60529)
Climate test	EN60068-2-30,DB55℃/100%
Vibration resistance	EN60068-2-6,5-500Hz,50g,10mm
Shock resistance	EN60068-2-27(half sine) 50g,11ms,1000shocks; 1000g,1ms,50shocks

测量原理

The pin sensor utilizes the elastic deformation of an elastic body under the action of an external force, causing the resistance value of the resistance strain gauge adhered to its surface to change (increase or decrease). Then, through the corresponding measurement circuit, this resistance change is converted into an electrical signal (voltage or current), thereby completing the force measurement process.

Detailed Description

▲ 用螺帽固定的接口内部连接不易脱落，也不用担心工业场合中电磁对传感的影响了

▲ 中间应变区域有盖板保护，工作环境在恶劣也不怕进灰尘了

The material is made of high-performance alloy steel or stainless steel.

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