

SM6A S-type Load Cell

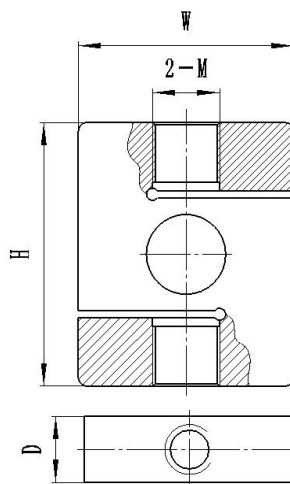
Description:

The sensor is made of alloy steel or stainless steel and features an S-shaped parallel beam type. It is produced by introducing raw materials from the United States and the proprietary processing technology of the American BEAN Company.



Applied to: testing machine, hopper scale, hook scale, push-pull force gauge, riveting machine, welding machine, cold-hot pressing film laminating machine, keyboard button feel tester and other tensile and compressive force testing instruments, field of automated equipment and industrial measurement.

Characteristics: Bidirectional tension and compression bearing, stability, high precision, compact structure, convenient to install.

Dimensions (In mm. 1mm=0.03937 inches)

CAP. /SIZE	H	W	D	M
kg/mm				
0.5~3	50	80	8	M6
5~50	50	60	12	M8
100~500	76	76	24	M16
1000~1500	76	60	27	M16
2000~3000	96	76	27	M20
5000~7000	105	93	55	M24
10000~15000	152	125	60	M36×3
20000~30000	160	152	65	M36×3
lb/inches (conversion of above dimensions)				
1.10~6.61	19.69	31.5	3.15	M6
11.02~110.23	19.69	23.62	4.72	M8
220.46~1102.31	29.92	29.92	9.45	M16
2204.62~3306.93	29.92	23.62	10.63	M16
4409.25~6613.87	37.8	29.92	10.63	M20
11023.11~15432.36	41.34	36.61	21.65	M24
22046.23~33069.34	59.84	49.21	23.62	M36×3
44092.45~66138.68	62.99	59.84	25.59	M36×3

Circuit Diagram:

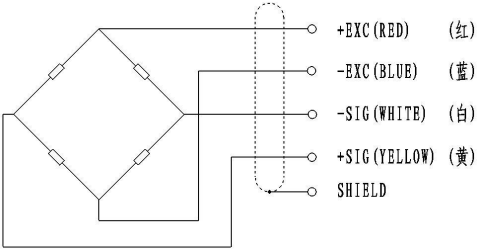
- Red:

+input
- Blue:

-input
- White:

+output
- Yellow:

-output



Specification:

Type	Technical parameters
Nominal load range	0.5 ~ 30000kg
Power supply	10~12 VDC
Zero balance	1.0±% of rated output
Analog output	2.0±0.015mV/V
Input resistance (R _{ic})	380±5Ω (ohms)
Output resistance (R _o)	350±2Ω (ohms)
Insulation resistance	≥5000 MΩ (Mege-Ohms)
Class precision	0.05%FS
Effect of temperature	0.05%FS/10°C
Operating temperature	-40 ~ +85°C
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