

SM-S5F Column Weighing Load Cell



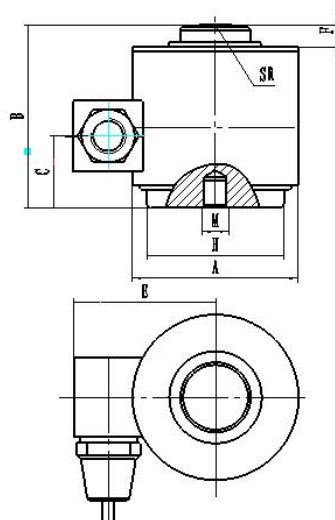
1. Description:

The SM-S5F load cell adopts the BH series foil strain gauge produced with American raw materials and the proprietary processing technology of the American BEAN Company as the force-electricity conversion element. The load-bearing mode is a compression structure. It has fast dynamic response and strong overload capacity. It has a relatively good automatic heart adjustment function, waterproof and dustproof, easy to install. It is convenient to use and fully meets the weighing requirements of large tonnage. It can be used for manufacturing electronic truck scales, dynamic rail scales, large-tonnage hopper scales, and industrial weighing and material level control of large-tonnage silos and hoppers.

2. Characteristics:

- Protection grade IP67 and adapt to harsh environments.
- Good dynamic response and strong overload resistance.
- Stable performance and reliable over the long term.

Dimensions (In mm. 1mm=0.03937 inches)



CAP. /SIZE	A	B	C	E	F	G	H	SR	M
t/mm									
10～20	75	83	32.5	64	10	31.8	62	125	M12
30～50	100.6	127	54.6	86	14	59	79.5	152	M18
50～200	150.6	184.5	92	108	26	80	134	400	M20
200～300	165	229	92	108	26	93.7	148	400	M20
300～500	177	215.9	117	115	22	139.7	165.1	1143	M20
Ib×10 ³ /inches (conversion of above dimensions)									
22.05～44.09	29.53	32.68	12.80	25.20	3.94	12.52	24.41	49.21	M12
66.14～110.23	39.61	50.00	21.50	33.86	5.51	23.23	31.30	59.84	M18
110.23～440.92	59.29	72.64	36.22	42.52	10.24	31.50	52.76	157.48	M20
440.92～661.39	64.96	90.16	36.22	42.52	10.24	36.89	58.27	157.48	M20
661.39～1102.31	69.69	85.00	46.06	45.28	8.66	55.00	65.00	450.00	M20

Circuit Diagram:

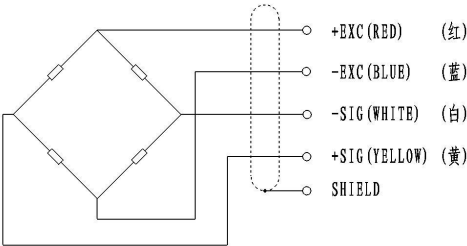
- Red:

+input
- Blue:

-input
- White:

+output
- Yellow:

-output



Specification:



Type	Technical parameters
Nominal load range	10 ~ 500t
Power supply	10~12 VDC
Zero balance	1.0±% of rated output
Analog output	2.0±0.002mV/V
Input resistance (R _{ic})	400±20Ω (ohms)
Output resistance (R _o)	380±5Ω (ohms)
Insulation resistance	≥5000 MΩ (Mege-Ohms)
Class precision	0.05%FS
Effect of temperature	0.02%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	IP68