

SM-4B Column Weighing Load Cell



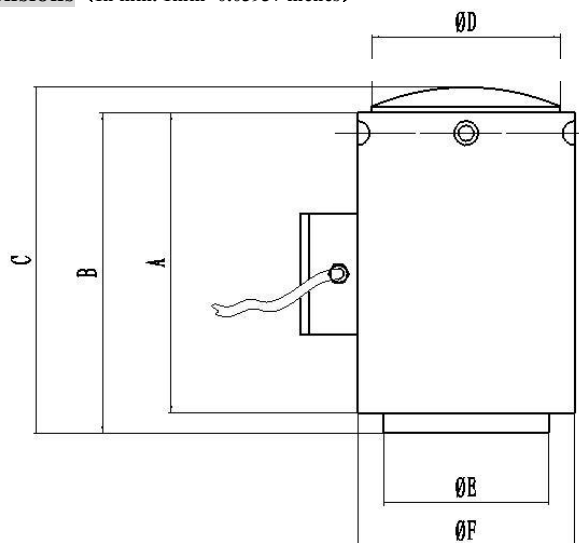
Description

The SM-4B 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 power-to-electricity conversion element. The load-bearing mode is a compression structure. It has a relatively good automatic heart adjustment function, waterproof and dust-proof, 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.

Characteristics

- Protection grade IP67, suitable for harsh environments.
- Good dynamic response and strong overload resistance.
- The performance is stable and reliable over the long term.

Dimensions (In mm. 1mm=0.03937 inches)



CAP. /SIZE	A	B	C	ØD	ØE	øF
t/mm						
30	105	110	120	50	64	75
50	105	114	125	54	68	87
100	175	185	200	109	96	126
250~350	245	260	280	150	175	205
500~750	310	324	350	175	199	260
1000	455	470	493	160	280	340
Ib/inches (conversion of above dimensions)						
66138.68	41.34	43.31	47.24	19.69	25.20	29.53
110231.13	41.34	44.88	49.21	21.26	26.77	34.25
220462.26	68.90	72.83	78.74	42.91	37.80	49.61
551155.65~771617.91	96.46	102.36	110.24	59.06	68.90	80.71
1102311.30~1653466.95	122.05	127.56	137.80	68.90	78.35	102.36
2204622.60	179.13	185.04	194.09	62.99	110.24	133.86



Circuit Diagram:

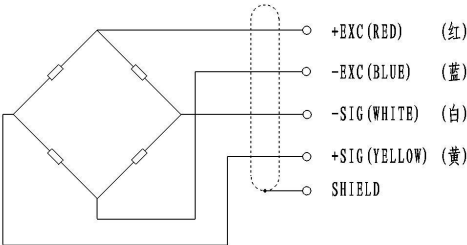
- Red:

+input
- Blue:

-input
- White:

+output
- Yellow:

-output



Specification:

Type	Technical parameters
Nominal load range	10 ~ 1000t
Power supply	10~12 VDC
Zero balance	1.0±% of rated output
Analog output	1.5±0.01mV/V
Input resistance (R _{ic})	750±20Ω (ohms)
Output resistance (R _o)	700±5Ω (ohms)
Insulation resistance	≥5000 MΩ (Mege-Ohms)
Class precision	0.05%F.S
Effect of temperature	0.05%F.S/10°C
Operating temperature	-40 ~ +85°C
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/IP68