

SM-S5E Column Weighing Load Cell



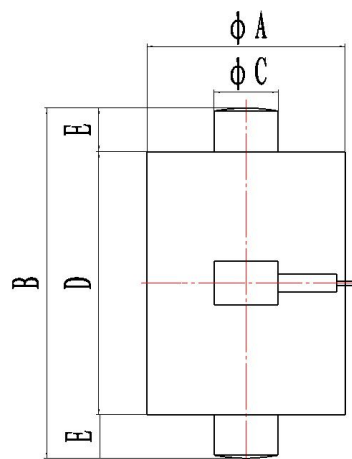
1. Description:

The SM-S5E column load cell adopts a double ball head design, is welded by argon arc welding and has a waterproof grade of IP68. 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	D	E
t/mm					
10	88	120	22	90	15
20	88	120	33	90	15
30	112	140	40	110	15
50	138	180	50	140	20
100	164	240	70	200	20
200	215	260	100	210	25
300	215	340	120	290	25
500	265	390	155	330	30
lb/inches (conversion of above dimensions)					
22.046×10 ³	34.65	47.24	8.66	35.43	5.91
44.09×10 ³	34.65	47.24	12.99	35.43	5.91
66.14×10 ³	44.09	55.12	15.75	43.31	5.91
110.23×10 ³	54.33	70.87	19.69	55.12	7.87
220.46×10 ³	64.57	94.49	27.56	78.74	7.87
440.92×10 ³	84.65	102.36	39.37	82.68	9.84
661.39×10 ³	84.65	133.86	47.24	114.17	9.84
1102.31×10 ³	104.33	153.54	61.02	129.92	11.81



Circuit Diagram:

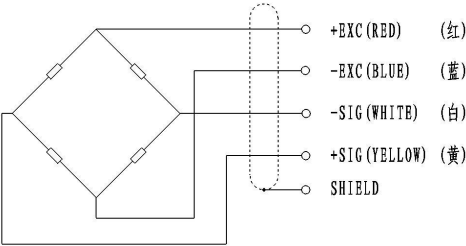
- Red:

+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°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	IP68