

Type SM42B Bridge Weighing Load Cell

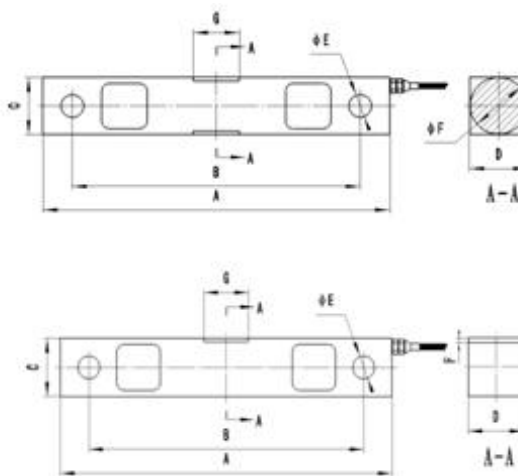
Characteristics:

The sensor is made of alloy steel, fully sealed and welded, with a high safety factor.

Applied to: Tower crane, gate hoist, port machinery, chain hoist etc.



Dimensions (In mm. 1mm=0.03937 inches)



CAP. / SIZE	A	B	C	D	E	F	G
klb/mm							
2~5	190.5	158.8	31.8	31.8	12.7	31.8	31
10~25	222.3	190.5	49.3	36.6	20.6	50.5	41.1
35	222.3	190.5	63.5	38.1	20.6	63.5	41.1
50	342.9	292.1	74.7	62	33.3	75.9	82.6
75	342.9	292.1	74.7	62	33.3	4.6	82.6
100~125	469.9	381	100.1	74.7	41.4	6.4	82.6
200	520.7	431.8	147.3	96.5	54.1	12.7	104.9
300	596.9	476.3	147.3	96.5	66.8	12.7	130.3
klb/inches (conversion of above dimensions)							
2~5	75.00	62.52	12.52	12.52	5.00	12.52	12.20
10~25	87.52	75.00	19.41	14.41	8.11	19.88	16.18
35	87.52	75.00	25.00	15.00	8.11	25.00	16.18
50	135.00	115.00	29.41	24.41	13.11	29.88	32.52
75	135.00	115.00	29.41	24.41	13.11	1.81	32.52
100~125	185.00	150.00	39.41	29.41	16.30	2.52	32.52
200	205.00	170.00	57.99	37.99	21.30	5.00	41.30
300	235.00	187.52	57.99	37.99	26.30	5.00	51.30

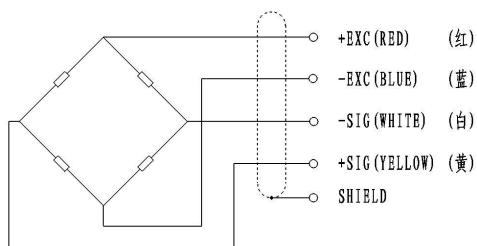
Circuit Diagram:

Red: +input

Blue: -input

White: +output

Yellow: -output



Type	Technical parameters
Nominal load range	5 ~ 250klb
Power supply	10~12 VDC
Zero balance	1.0±% of rated output
Analog output	2.0±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%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	IP67/IP68

Specification: