

SM18HG Single Beam Load Cell



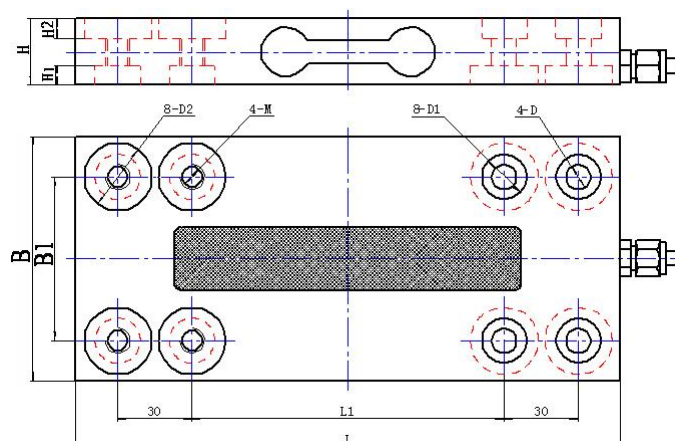
Description:

The SM18HG single beam load cell is of a double-hole parallel cantilever beam structure. When it is manufactured, it has undergone temperature compensation and corner adjustment to ensure consistent output at all points within the specified load plane. It can be used to manufacture various types of electronic platform scales, body scales, batching scales, process scales and special scales composed of a single sensor. It has simple structure, low height, strong lateral resistance, compact structure, high precision and convenient use.

Characteristics:

- High precision and good performance.
- The error adjustment at all corners.
- Applicable to platform weighing.
- Simple structure and convenient to use.

Dimensions (In mm. 1mm=0.03937 inches)



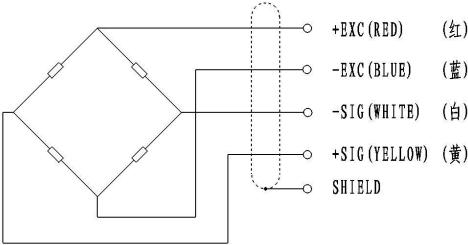


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CAP. /SIZE	L	L 1	B	B 1	H	H 1	H 2	D	D 1	D 2	M
kg/mm											
50, 100	200	110	80	56	25	8	8	Φ 9	Φ 18	Φ 18	M8
150	220	126	98	66	27	8	8	Φ 11	Φ 18	Φ 27	M10
300	220	126	98	66	31	8	8	Φ 11	Φ 18	Φ 27	M10
500	220	126	98	66	36	8	8	Φ 11	Φ 18	Φ 27	M10
1000	220	126	98	66	47	10	10	Φ 15	Φ 22	Φ 27	M12
Ib/inches (conversion of above dimensions)											
110. 23~220. 46	78. 74	43. 31	31. 50	22. 05	9. 84		3. 15	Φ 3. 54	Φ 7. 09	Φ 7. 09	M8
330. 69	86. 61	49. 61	38. 58	25. 98	10. 63	3. 15	3. 15	Φ 4. 33	Φ 7. 09	Φ 7. 09	M10
661. 39	86. 61	49. 61	38. 58	25. 98	12. 20	3. 15	3. 15	Φ 4. 33	Φ 7. 09	Φ 7. 09	M10
1102. 31	86. 61	49. 61	38. 58	25. 98	14. 17	3. 15	3. 15	Φ 4. 33	Φ 7. 09	Φ 7. 09	M10
2204. 62	86. 61	49. 61	38. 58	25. 98	18. 50	3. 94	3. 94	Φ 5. 91	Φ 8. 66	Φ 10. 63	M12

Circuit Diagram:

- Red: +input
Blue: -input
White: +output
Yellow: -output



Specification:

Type	Technical parameters
Nominal load range	50 ~ 1000kg
Power supply	10~12 VDC
Zero balance	1.0±% of rated output
Analog output	2.0±0.001mV/V
Input resistance (R _{ic})	400±20Ω (ohms)
Output resistance (R _o)	350±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