

Type SM40A Bridge Weighing Load Cell

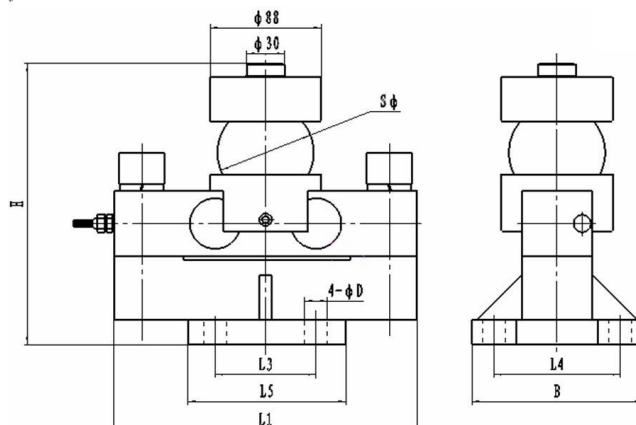
Description

The sensor is made of alloy steel or stainless steel and features a unique bridge structure. The force transmission component adopts a pressure head and steel ball structure, which can automatically reset and self-align. It has excellent moisture-proof sealing and is suitable for harsh working environments. It can be used to manufacture various electronic truck scales, rail scales, hopper scales and various special weighing instruments.

Characteristics: High resistance to lateral force and impact, easy to install, good interchangeability



Dimensions (In mm. 1mm=0.03937 inches)



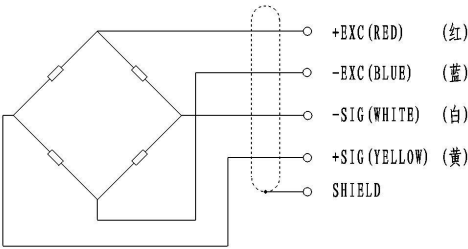
CAP. /SIZE	L1	L3	L4	L5	H	B	ØD	ØS
t/mm								
10	240	80	100	125	195	135	18	50
20、30	240	80	100	125	225	135	18	76
40、50	340	124	124	180	261	160	21	82
Ib/inches (conversion of above dimensions)								
22046.23	94.49	31.5	39.37	49.21	76.77	53.15	7.09	19.69
44092.45~66138.68	94.49	31.5	39.37	49.21	88.58	53.15	7.09	29.92
88184.9~110231.1	133.86	48.82	48.82	70.87	102.76	62.99	8.27	32.28



Circuit Diagram:

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

Specification:



Type	Technical parameters
Nominal load range	10 ~ 50t
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