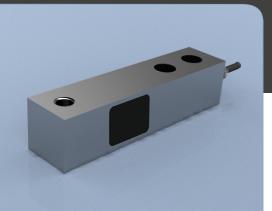
TYPE: SBL-2



Features

- O Ranges: 250, 500, 1000, 2000kg
- Stainless steel construction
- Environmentally sealed to IP67
- O Low profile design
- Can be supplied with vessel mounting assembly, shock mounts or platform foot mounting assembly

Typical Applications

- O Vessel weighing
- Floor scales
- Rolling roads
- O MOT brake testers
- Pallet truck weighing
- Tank & silo weighing



SBL-2 Stainless Steel Shear Beam Load Cell

Description

The SBL-2 series of shear beam load cells have been specifically designed for use in a wide range of weighing applications, including vessel weighing, floor scales and pallet trucks. There are a number of mounting accessories available to make installation easier and to ensure that the best system accuracy is maintained. Please consult with LCM Systems engineers for further details, based on your application requirements.

The SBL-2 offers high accuracy and superior immunity to shock or side loading. Manufactured from stainless steel with high performance potting for superior environmental protection, the load cell provides long term reliability. There are two versions available; one with a full metric thread and another with a blind hole for load attachment.

The SBL-2 series can be supplied on its own or combined with our extensive range of instrumentation to provide a complete system.

Specification

Specification				
Rated load (kg)	250, 500, 1000, 2000			
Accuracy class	C3			
Maximum number of verification intervals	3000			
Minimum number of verification intervals	E _{max} /10,000			
Temperature effect on minium dead load output	≤± 0.0014% of rated load/°C			
Temperature effect on sensitivity	≤± 0.001% of rated load/°C			
Safe load limit	200% of rated load			
Ultimate load	300% of rated load			
Safe side load	100% of rated load			
Output	2mV/V (±0.1%) at rated load			
Zero balance	≤±5% of rated load			
Combined error	≤±0.02% of rated load			
Non-linearity	≤±0.0166% of rated load			
Hysteresis	≤±0.0166% of rated load			
Creep error (30 minutes)	≤±0.0166% of rated load			
Excitation voltage	5 to 15V			
Input resistance	380Ω ±10			
Output resistance	350Ω ±3			
Insulation resistance	>5000MΩ @ 100vdc			
Operating temperature range	-40 to +65°C			
Compensated temperature range	-10 to +40°C			
Sealing	Potted			
Environmental protection level	IP67 3 metres PUR screened cable, via cable gland			
Connection type				
Wiring connections	+ve supply: Red -ve supply: Black			
	+ve sense: Blue -ve sense: Brown			
	+ve signal : Green -ve signal: White			
	Shield: Yellow			

Available Options

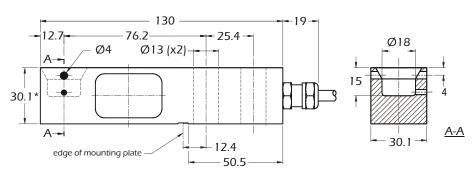
- Vessel mounting assembly (using blind hole version of SBL-2)
- Shock mounting assembly
- O Platform foot mounting assembly (using blind hole version of SBL-2)



SBL-2 Stainless Steel Shear Beam **Load Cell**

Dimensions

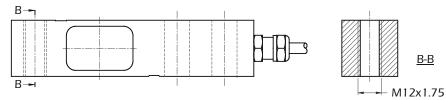
Blind Hole Attachment



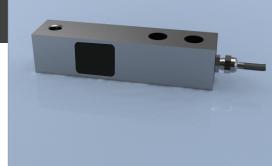
* 2000kg capacity: height = 36mm

All dimensions are in mm

Threaded (Metric) Attachment



F	Rating (kg)	Part Number Blind Hole	Part Number Threaded Metric	Mounting Bolts	Torque (oiled thread)	Weight (kg)	Resolution (kg)
	250	SBL-2-250-BH	SBL-2-250-TM	M12 8.8	90Nm	1.2	0.02
	500	SBL-2-500-BH	SBL-2-500-TM	M12 8.8	90Nm	1.2	0.05
	1000	SBL-2-1000-BH	SBL-2-1000-TM	M12 8.8	90Nm	1.2	0.1
	2000	SBL-2-2000-BH	SBL-2-2000-TM	M12 10.9	12Nm	1.2	0.2



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