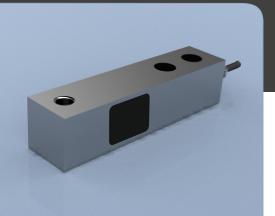
TYPE: SBL-2



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





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Business Hours: Monday - Friday 8:30AM - 6:15PM

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

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		
Connection type	3 metres PUR screened cable, via cable gland		
Wiring connections	+ve supply: Red -ve supply: Black		
	+ve sense: Blue -ve sense: Brown		
	+ve signal : Green -ve signal: White		
	Shield: Yellow		

Available Options

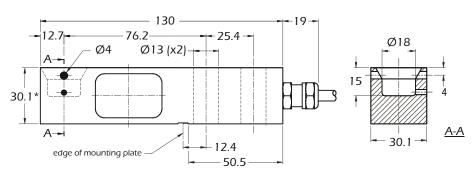
- Vessel mounting assembly (using blind hole version of SBL-2)
- Shock mounting assembly
- O Platform foot mounting assembly (using blind hole version of SBL-2)



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

Dimensions

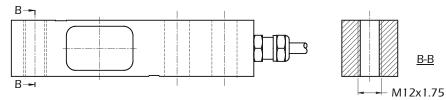
Blind Hole Attachment



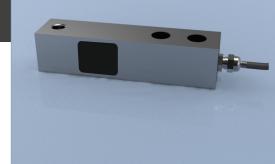
* 2000kg capacity: height = 36mm

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



LCM Systems (România)

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