

TYPE: BBL-1



BBL-1 Stainless Steel Beam Load Cell

Description

The BBL-1 series of beam load cells have been specifically designed for use in a wide range of weighing applications including vessel weighing and floor scales. It is equally suited for use in a wide range of force measurement applications.

There are a number of mounting accessories, which are available to make installation easier and to ensure that the best system accuracy is maintained.

The BBL-1 series can be supplied on its own or combined with our extensive range of instrumentation to provide a complete system.

Specification

Rated load (kg)	5, 10, 20, 30, 50, 100, 200, 250, 500	
Proof load	150% of rated load	
Ultimate breaking load	>300% of rated load	
Output	2mV/V ($\pm 0.1\%$) at rated load	
Accuracy	$\leq \pm 0.025\%$ of rated load	
Non-repeatability	$\leq \pm 0.02\%$ of rated load	
Excitation voltage	10vdc recommended, 15vdc maximum	
Bridge resistance	350 Ω	
Insulation resistance	>1000M Ω @ 100vdc	
Operating temperature range	-20 to +70°C	
Compensated temperature range	-10 to +40°C	
Zero temperature coefficient	$\leq \pm 0.002\%$ of rated load/°C	
Span temperature coefficient	$\leq \pm 0.001\%$ of rated load/°C	
Environmental protection level	IP68	
Connection type	5 metres PUR screened cable, via cable gland	
Wiring connections	+ve supply: Blue	-ve supply: Black
	+ve signal : White	-ve signal: Red
	+ sense: Green	-sense: Grey

Features

- Ranges from 5kg to 500kg
- Stainless steel fully welded construction
- Environmentally sealed to IP68
- Can be supplied with vessel mounting assembly or shock mounts

Typical Applications

- Vessel weighing
- Hanging scales
- Tensile test machines
- Dynamometers

Available Options

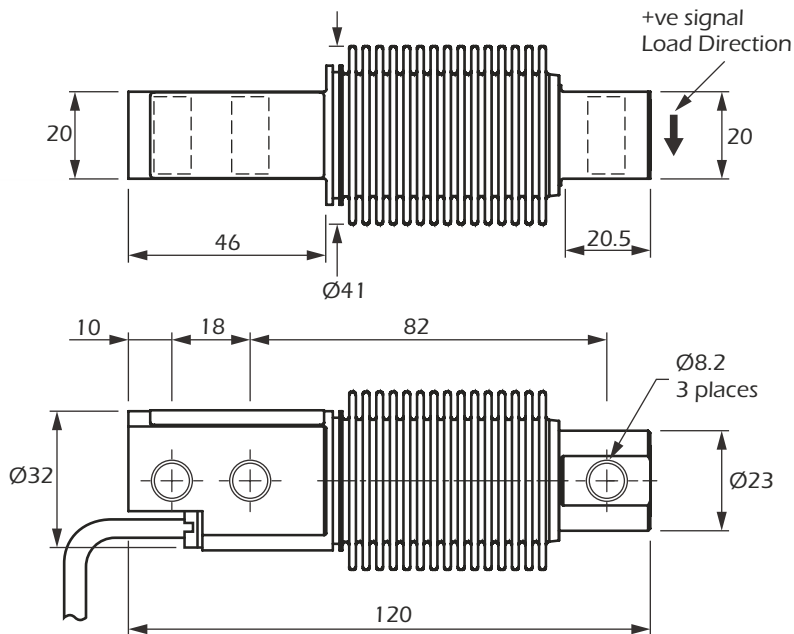
- Vessel mounting assembly
- Shock mounting assembly
- TEDS option (when used with TR150 handheld display)

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Dimensions



All dimensions are in mm

Rating (kg)	Part Number	Weight (kg)	Resolution (kg)
5	BLL-1-5	0.36	0.001
10	BLL-1-10	0.36	0.002
20	BLL-1-20	0.36	0.005
30	BLL-1-30	0.36	0.005
50	BLL-1-50	0.36	0.01
100	BLL-1-100	0.36	0.02
200	BLL-1-200	0.36	0.05
250	BLL-1-250	0.36	0.05
500	BLL-1-500	0.36	0.1



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APPROVED

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