## TYPE: SBL-24



## **Features**

- Ranges: 0.5 to 10klb
- Stainless steel (17-4PH) fully welded construction
- Environmentally sealed to IP68
- O Unique blind loading hole
- High input resistance
- Can be supplied with vessel mounting assembly, shock mounts or platform foot mounting assembly

# **Typical Applications**

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



## Description

The SBL-24 series of beam load cells are available in a wide range of capacities from 0.5lb (227kg) through to 10,000lb (4536kg). They are manufactured entirely from stainless steel and have a fully welded construction, providing a high level of environmental and hermetic sealing to IP68. The design makes them ideal for use in harsh weighing environments where wash down of the application is required. The SBL-24 can be supplied complete with a vessel/tank weighing assembly, which is designed to make installation easier and to provide a means of realising the best accuracy from the product when installed, by eliminating the effects for vessel/tank thermal expansion. More details on the assembly are available on a separate datasheet (SBL-WMOUNT).

There are two versions available; one with a threaded end load attachment hole, the other version has a blind hole. The blind hole version is ideal for floor scale applications, where a foot can be attached for simple scale design. This version is also used when the vessel weighing assembly is used. The threaded version is ideal for hanging vessels and hoppers.

## **Specification**

500, 1000, 2500, 5000, 10,000					
227, 454, 1134, 2268, 4536					
C3					
3000					
Emax/11,500					
≤± 0.00122% of rated load/°C					
≤± 0.001% of rated load/°C					
200% of rated load					
300% of rated load					
100% of rated load					
2mV/V (±0.1%) at rated load					
≤±5% of rated load					
≤±0.02% of rated load					
≤±0.0166% of rated load					
≤±0.0166% of rated load					
≤±0.0166% of rated load					
5 to 15V					
1100Ω ±50					
1000Ω ±2					
>5000MΩ @ 100vdc					
-40 to +80°C (-40 to +60°C for ATEX version)					
-10 to +40°C					
IP68 (up to 2m water depth)					
3 mtr PUR screened cable (4.5 mtr for 10klb)					
+ve supply: Green -ve supply: Black					
+ve signal : White -ve signal: Red					
Shield: Yellow					

## **Available Options**

- Hazardous Area certified Intrinsically Safe (Ex i)
- Vessel mounting assembly (using blind hole version of SBL-24)
- Shock mounting assembly
- Platform foot mounting assembly (using blind hole version of SBL-24)

ATEX approval pending





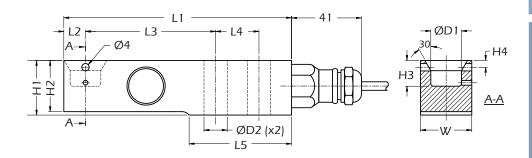


TYPE: SBL-24

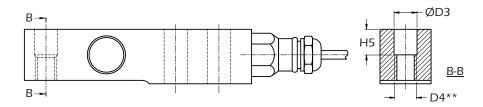
# SBL-24 Stainless Steel Shear Beam Load Cell

## **Dimensions**

### **Blind Hole Attachment**



## **Counter Bored Threaded (Metric) Attachment**



R	ating (lb)	Rating (kg)	L1	L2	L3	L4	L5	Н1	H2	НЗ	H4	H5	w	D1	D2	D3	D4
	500	227	133.4	12.7	76.2	25.4	59.9	31	28.8	15	4	15	30	18	13	13.5	M12
	1000	454	133.4	12.7	76.2	25.4	59.9	31	28.8	15	4	15	30	18	13	13.5	M12
- 2	2500	1134	133.4	12.7	76.2	25.4	59.9	31	30.5	15	4	15	30	18	13	13.5	M12
	5000	2268	133.4	12.7	76.2	25.4	59.9	31	30.5	15	4	15	30	18	13	13.5	M12
1	0,000	4536	177.8	19.1	95.3	38.1	92.7	43.6	38.1	20.5	8	20.1	43	25	21	21.5	M20

All dimensions are in mm

	Rating (lb)	Rating (kg)	Part Number Blind Hole	Part Number Counter Bored	Mounting Bolts	Torque (oiled threads)	Weight (kg)	Resolution (lb)
	500	227	SBL-24-0.5-BH	SBL-24-0.5-CM	M12 8.8	90 Nm	1.2	0.05
	1000	454	SBL-24-1-BH	SBL-24-1-CM	M12 8.8	90Nm	1.2	0.1
	2500	1134	SBL-24-2.5-BH	SBL-24-2.5-CM	M12 8.8	90Nm	1.2	0.2
ſ	5000	2268	SBL-24-5-BH	SBL-24-5-CM	M12 10.9	120Nm	1.2	0.5
	10,000	4536	SBL-24-10-BH	SBL-24-10-CM	M20 8.8	400Nm	2.44	1

ATEX approval pending





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