

SB Shear beam load cell



Product description

Industry standard size and wiring for industrial platform scales that do not require full hermetically sealed load cells. The SB-C3 is particularly useful for manufacturing medium capacity and yet rugged industrial weighing equipment such as platform scales or pallet truck weighing systems.

Key features

Alloy steel rust-resistant construction

IP67 protection

Calibration in mV/V/Ω

Optimized for parallel connection

Applications

Industrial platform scales

Pallet truck scales

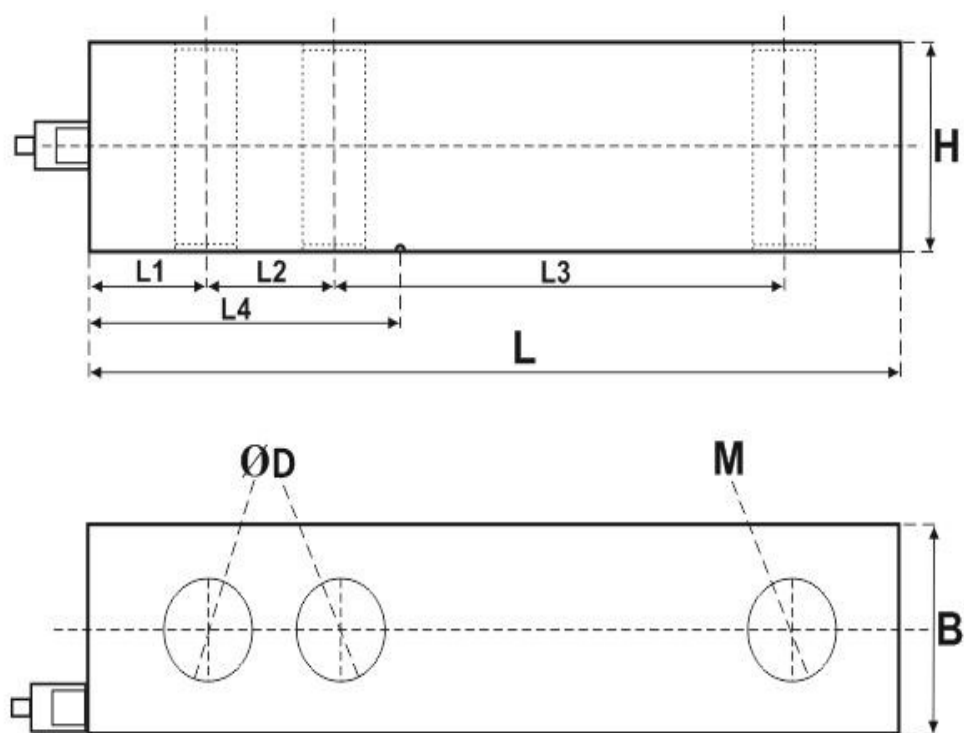
Tank weighing systems

Vessel weighing systems

Specifications

Detailed specifications		
Accuracy class	C3	
Output sensitivity (= FS)	mV/V	2.5 ± 0.02
Maximum capacity (E _{max})	t	5
Max.number of load cell intervals	nLC	3000
Ratio of min. LC verification interval	$Y = E_{max} / v_{min}$	10000
Combined Error	%FS	$\leq \pm 0.03$
Minimum dead load	of E _{max}	0%
Safe overload	of E _{max}	150 %
Ultimate overload	of E _{max}	250 %
Zero balance	of FS	$< \pm 1\%$
Excitation, recommended voltage	V	5 ~ 12
Excitation maximum	V	15
Input resistance	Ω	400 ± 20
Output resistance	Ω	350 ± 6
Insulation resistance	M Ω	≥ 2000 (at 50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material	Alloy steel	
Ingress Protection (acc. To EN 60529)	IP67	

Product dimensions (mm)



Dimension Capacity	L	L1	L2	L3	L4	B	H	ØD	M
1t-2t	130	15.8	25.4	76.2	54.2	31.8	31.8	13.5	M12*1.5
5t	171.5	19.1	38.1	95.3	77.2	38.1	38.1	19.8	M18*1.5
10t	222.3	25.4	50.8	120.7	101.6	50.8	50.8	26	M24*2

Wiring

Shielded, 4 conductor cable.

Cable diameter: Ø5.0mm.

Standard cable length for 1t – 5t: 4m and for 10t: 6m.

