Hermetically-Sealed Bending Beam

FEATURES

- Capacities: 10, 20, 30, 50, 75, 100, 200 and 250 kg
- Stainless steel or alloy steel construction
- Stainless steel version hermetically-sealed
- High side load tolerance
- Easy installation
- OIML C3 approval from 50 kg to 250 kg



APPLICATIONS

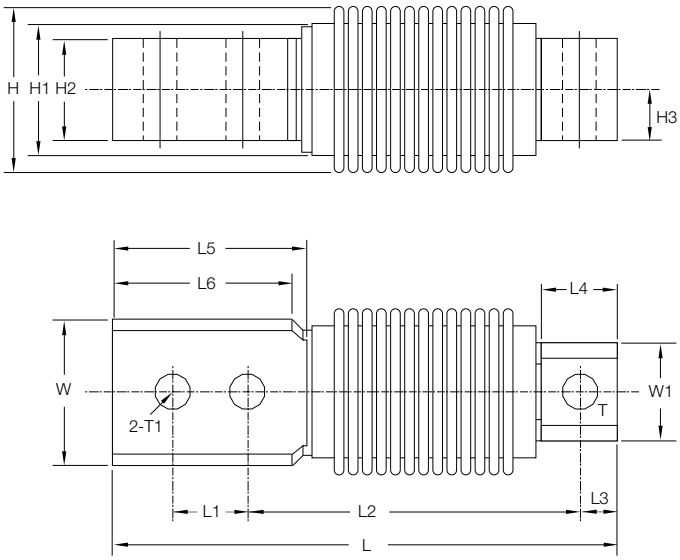
- Platform scales (multiple load cells)
- Silo/hopper/tank weighing
- Packaging machines
- Dosing/filling
- Belt scales/conveyor scales

DESCRIPTION

The Model HBB is a single-ended bending beam load cell designed for multiple cell applications, such as low profile platform scales or small tank scales, when used with proper mounting accessories. It is insensitive to side load and capable of reversed loading.

The Model HBB is constructed of stainless steel or alloy steel. The strainless steel version is hermetically-sealed to IP68, providing excellent protection against corrosive and wash-down environments.

OUTLINE DIMENSIONS



Wiring Diagram

Stainless Steel:

+ Excitation	Red
– Excitation	Black
+ Signal	Green
– Signal	White
+ Sense	Brown
– Sense	Yellow

Alloy Steel:

+ Excitation	Red
– Excitation	Black
+ Signal	Green
– Signal	White

Stainless Steel Capacities (kg)		L	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	W	W1	T	T1
10, 20, 50, 100, 200*, 250	mm	120	18	82	10	19	41	38	41.6	28.2	20	10	31.5	26.6	Ø 8.2	Ø 8.2
	inch	4.72	0.71	3.23	0.39	0.75	1.61	1.5	1.64	1.11	0.79	0.39	1.24	1.05	Ø 0.32	Ø 0.32

* Threaded hole version “200KGT” available: T = M10 × 1.5

Alloy Steel Capacities (kg)		L	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	W	W1	T	T1
10, 20,30, 50, 75, 100, 200, 250	mm	120	18	82	10	19	41	38	41.6	31.5	20	10	31.5	26.6	M10 × 1.5	Ø 8.2
	inch	4.72	0.71	3.23	0.39	0.75	1.61	1.5	1.64	1.24	0.79	0.39	1.24	1.05	M10 × 1.5	Ø 0.32

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Hermetically-Sealed Bending Beam

SPECIFICATIONS			
PARAMETER	**VALUE**		**UNIT**
NTEP/OIML Accuracy class	Non-Approved	C3 (stainless steel version only)	
Maximum no. of intervals (n)	1000	3000*	
$Y = E_{max}/V_{min}$	5000	10000	Maximum available
Standard capacities (E_{max})	10, 20, 30**, 50, 75**, 100, 200, 250		kg
Rated output—RO	2.0		mV/V
Rated output tolerance	0.25		±% of rated output
Zero balance	1		±% of rated output
Non linearity	0.030	0.025	±% of rated output
Hysteresis	0.030	0.025	±% of rated output
Non-repeatability	0.020		±% of rated output
Creep error (20 minutes)	0.030	0.020	±% of rated output
Zero return (20 minutes)	0.030	0.020	±% of rated output
Temperature effect on min. dead load output	0.0026	0.0014	±% of rated output/°C
Temperature effect on sensitivity	0.0015	0.0010	±% of rated output/°C
Compensated temperature range	–10 to +40		°C
Operating temperature range	–20 to +60		°C
Safe overload	150		% of RC
Ultimate overload	300		% of RC
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	385±5		Ω
Output impedance	350±3		Ω
Insulation resistance	>5000		MΩ
Cable length	3		m
Construction	Stainless steel or alloy steel		
Environmental protection	IP68 (stainless steel version only)		

* Capacities: 50–250 kg
** Capacities of 30 kg and 75 kg as alloy steel version only

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