

## Miniature Bending Beam

### FEATURES

- Capacities: 50, 100, 150, and 250 lbs
- Low profile for low-capacity scales
- Electroless nickel-plated alloy tool steel
- **Optional**
  - FM approval available

### APPLICATIONS

- Silo/hopper/tank weighing
- Packaging machines
- Dosing/filling
- Belt scales/conveyor scales

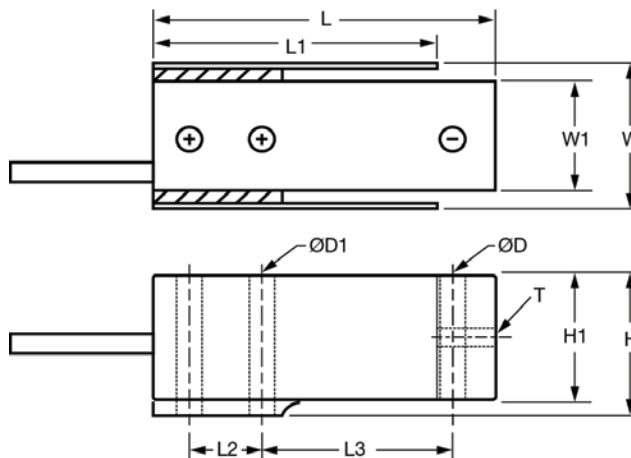


### DESCRIPTION

MBB is designed for low profile platform scales and tank scales in low capacities. It is constructed of high alloy tool steel which offers superior performance in creep characteristics and shock load capabilities over standard aluminum units.

MBB is fully potted and sealed with special chemical compounds to IP66 providing excellent protection against moisture and humidity.

### OUTLINE DIMENSIONS



**Wiring**  
 + Excitation Red  
 - Excitation Black  
 + Signal Green  
 - Signal White

**All Capacity  
 Cable Length: 5' / 1.5m**

CAPACITY		L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	W	W <sub>1</sub>	H	H <sub>1</sub>	D <sub>1</sub>	D	T
50/100/150 lbs	mm	60.33	50	12.7	33.66	19.5	12.7	24.8	22.2	4.5	4.5	-
	(inch)	2.38	1.97	0.50	1.33	0.77	0.5	0.98	0.87	0.18	0.18	
250 lbs	mm	60.33	50	12.7	33.66	25.4	19.05	24.8	22.2	4.5	4.5	-
	(inch)	2.38	1.97	0.50	1.33	1.00	0.75	0.98	0.87	0.18	0.18	
50/100/150 lbs OL	mm	60.33	50	12.7	33.66	21	12.7	24.8	22.2	4.4	4.4	-
	(inch)	2.38	1.97	0.50	1.33	0.83	0.5	0.98	0.87	0.17	0.17	
100/250 lbs VT	mm	60.33	50	12.7	33.66	25.4	19.05	24.8	22.2	6.8		-
	(inch)	2.38	1.97	0.50	1.33	1.00	0.75	0.98	0.87	0.26	1/4-20UNF	
100 lbs BCI	mm	60.33	50	12.7	33.66	25.4	19.05	24.8	22.2	6.4	6.4	-
	(inch)	2.38	1.97	0.50	1.33	1.00	0.75	0.98	0.87	0.25	0.25	
250 lbs BCI	mm	60.33	50	12.7	33.66	25.4	19.05	24.8	22.2	6.4	4.5	-
	(inch)	2.38	1.97	0.50	1.33	1.00	0.75	0.98	0.87	0.25	0.18	
250 lbs LT	mm	60.33	50	12.7	-	25.4	19.05	24.8	22.2	4.4		1/4-28UNF
	(inch)	2.38	1.97	0.50		1.00	0.75	0.98	0.87	0.17		

## Miniature Bending Beam

<b>SPECIFICATIONS</b>		
<b>PARAMETER</b>	<b>VALUE</b>	<b>UNIT</b>
<b>NTEP/OIML accuracy class</b>	Non-Approved	
<b>Maximum no. of intervals (n)</b>	3000	
<b>Y = E<sub>max</sub>/V<sub>min</sub></b>	5000	Maximum available
<b>Standard capacities (E<sub>max</sub>)</b>	50, 100, 150, 250	lbs
<b>Rated output—R.O.</b>	3.0	mV/V
<b>Rated output tolerance</b>	10	±% of rated output
<b>Zero balance</b>	1	±% of rated output
<b>Non-linearity</b>	0.030	±% of rated output
<b>Hysteresis</b>	0.030	±% of rated output
<b>Non-repeatability</b>	0.020	±% of rated output
<b>Creep error (20 minutes)</b>	0.030	±% of rated output
<b>Zero return (20 minutes)</b>	0.030	±% of rated output
<b>Temperature effect on min. dead load output</b>	0.0026	±% of rated output/°C
<b>Temperature effect on sensitivity</b>	0.0015	±% of applied load/°C
<b>Compensated temperature range</b>	-10 to +40	°C
<b>Operating temperature range</b>	-20 to +60	°C
<b>Safe overload</b>	150	% of R.C.
<b>Ultimate overload</b>	300	% of R.C.
<b>Excitation, recommended</b>	10	VDC or VAC RMS
<b>Excitation, maximum</b>	15	VDC or VAC RMS
<b>Input impedance</b>	385±5	Ω
<b>Output impedance</b>	350±3	Ω
<b>Insulation resistance</b>	>5000	MΩ
<b>Construction</b>	Nickel-plated alloy steel	
<b>Environmental protection</b>	IP66	

All specifications subject to change without notice.

## FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G

Non-Incendive: Class I; Div. 2 Groups A-D