

# Model MB Miniature Beam Load Cell

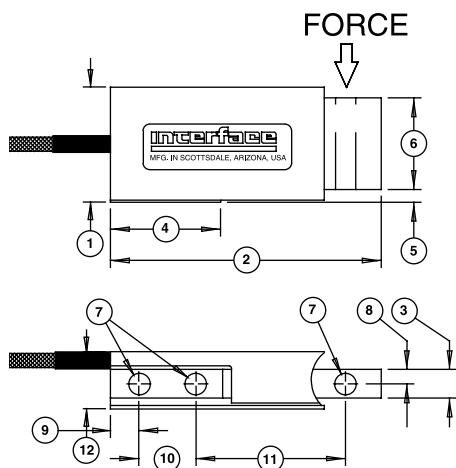


Why the Interface model MB Miniature Beam Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- Performance to .03%
- Low height – 1 in
- .0008%/°F temp. effect on output
- Low cost

## STANDARD CONFIGURATION

5 ft Integral Cable (MB-nn)



## SPECIFICATIONS

### ACCURACY – (MAX ERROR)

Nonlinearity–% FS	±0.03
Hysteresis–% FS	±0.02
Nonrepeatability–% RO	±0.01
Creep, in 20 min–%	±0.025

### TEMPERATURE

Compensated Range–°F	0 to 150
Operating Range–°F	-65 to 200
Effect on Output–%/°F – MAX	±0.0008
Effect on Zero–% RO/°F – MAX	±0.0015

### ELECTRICAL

Rated Output–mV/V (Nominal)	3.0
Zero Balance–% RO	±1.0
Bridge Resistance–Ohm (Nominal)	350
Excitation Voltage – MAX	15 VDC
Insulation Resistance–Megohm	5000

### MECHANICAL

Calibration	Compression
Safe Overload–% CAP	±150
Cable length–ft	5

### Natural Frequency/Deflection:

lbf	Deflection (inches)	Nat. Freq. (hertz)
5	.005	950
10	.005	1300
25	.005	2250
50	.004	3300
75	.004	3900
100	.005	4000
150	.005	4750
250	.005	4400

## DIMENSIONS

See Drawing	CAPACITY (lbf)													
	5, 10		25		50		75		100		150		250	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
①	1.01	25.7	1.01	25.7	1.01	25.7	1.01	25.7	1.01	25.7	1.01	25.7	1.02	25.9
②	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5
③	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.5	12.8
④	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6
⑤	0.14	3.6	0.11	2.8	0.15	3.8	0.14	3.6	0.13	3.3	0.1	2.5	0.12	3
⑥	0.75	19.1	0.81	20.6	0.72	18.3	0.75	19.1	0.78	19.8	0.82	20.8	0.79	20.1
⑦	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3
⑧	0.13	3.3	0.13	3.3	0.13	3.3	0.13	3.3	0.13	3.3	0.13	3.3	0.25	6.4
⑨	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4
⑩	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7
⑪	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3
⑫	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.75	19.1