

MBP MINIATURE BEAM OVERLOAD PROTECTED LOAD CELL (US & METRIC)

FEATURES & BENEFITS

- Capacities from 2.5 to 10 lbf (5 to 100 N)
- Proprietary Interface temperature compensated strain gages
- 10X overload protection
- Low height – 1 in (25.4 mm)
- 0.0008% °F temperature effect on output

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
	°C	+32 to +65.6
Operating Range	°F	-65 to +200
	°C	-53.9 to +93.3
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 – VDC MAX		15
Insulation Resistance – Megohm		5000
MECHANICAL		
Calibration		Compression
Safe Overload – %CAP	2.5-10 lbf	±1000
	10-50 N	
	100 N	±500
Deflection @RO	in	0.005
	mm	0.13
Material		Aluminum

OPTIONS

- Cable length
- Standardized output
- Custom calibration
- Add connector to cable
- Special temperature range
- Transducer Electronic Datasheets (TEDS)

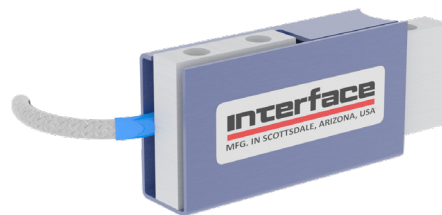
CONNECTOR OPTIONS

- 5 ft (1.5 m) integral cable (MBP)

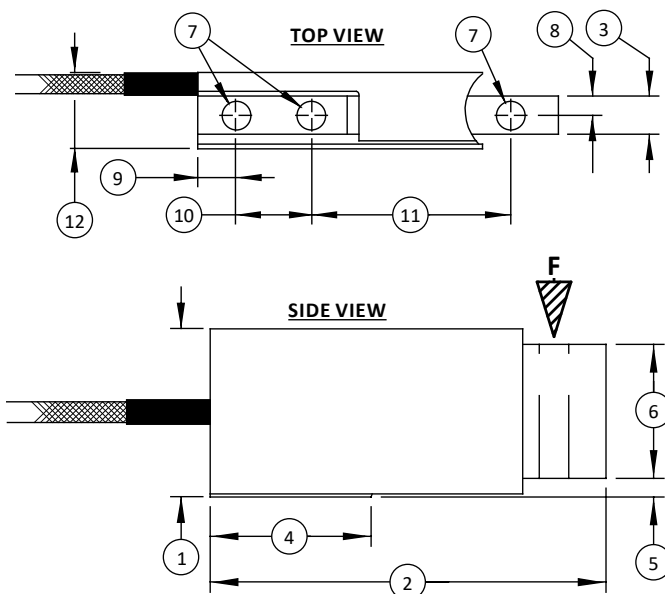
ACCESSORIES

- Instrumentation

STANDARD CONFIGURATION



Model MBP (Shown)



Notes:
F indicates load Direction
 * 5N Capacity: 1.50 (38.10)

DIMENSIONS

See Drawing	CAPACITY	
	U.S. (lbf)	Metric (N)
	2.5, 5, 10	*5, 10, 20, 50, 100
	in	mm
(1)	1.01	25.7
(2)	2.38	60.5
(3)	0.25	6.4
(4)	0.97	24.6
(5)	0.14	3.6
(6)	0.75	19.1
(7)	0.17	4.3
(8)	0.13	3.3
(9)	0.25	6.4
(10)	0.50	12.7
(11)	1.31	*33.3
(12)	0.50	12.7