

Model SM S-Type Load Cell (U.S. & Metric)

Why the Interface model SM S-Type Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- High performance
- .0008%/°F (.0015%/°C) temp. effect on output
- Lowest creep — 0.025%
- Tension & compression

STANDARD CONFIGURATION

5 ft Integral Cable (SM-nn)

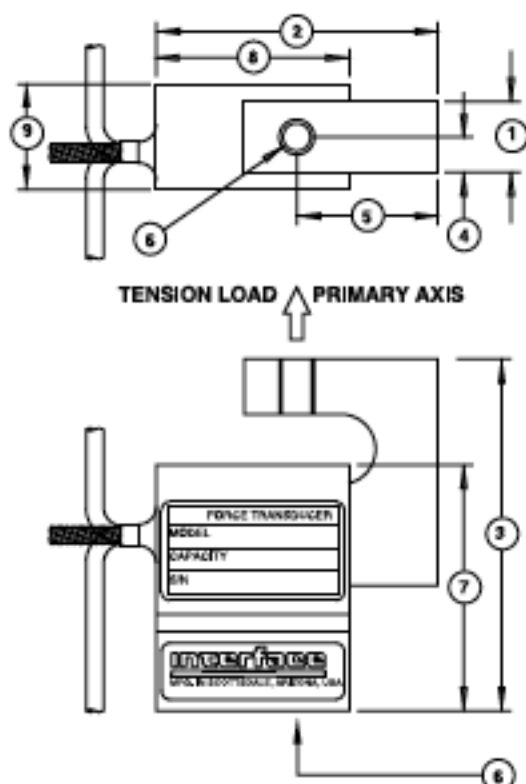
OPTIONS*

Extra Cable Length
Standardized Output

ACCESSORIES*

Load Button
Mounting Hardware
Instrumentation

*See appendix for more technical information



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-°F0 to 150
Compensated Range-°C-15 to 65
Operating Range-°F-65 to 200
Operating Range-°C-55 to 90
Effect on Output-%/°F – MAX±0.0008
Effect on Output-%/°C – MAX±0.0015
Effect on Zero-% RO/°F – MAX±0.0015
Effect on Zero-% RO/°C – MAX±0.0027

ELECTRICAL

Rated Output-mV/V (Nominal)3.0
Zero Balance-% RO±1.0
Bridge Resistance-Ohm (Nominal)350
Excitation Voltage – MAX15 VDC
Insulation Resistance-Megohm> 5000

MECHANICAL

CalibrationTension
Safe Overload-% CAP±150
Cable length-ft5

Natural Frequency/Deflection:

lbf	N	Deflection (inches)	Nat. Freq. (Hertz)
10	50	.003	600
25	100	.003	1000
50	200	.003	1550
100	500	.004	1850
250	1000	.006	2350
500	2000	.006	2150
1000	5000	.005	3350

DIMENSIONS

See Drawing	CAPACITY			
	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)
	inch	mm	inch	mm
①	10, 25, 50, 100, 150, 250	50, 100, 200 500, 1000	500 1000	2000 5000
②	0.50	12.7	1.00	25.4
③	2.00	50.8	2.00	50.8
④	2.50	63.5	3.00	76.2
⑤	0.25	6.40	0.50	12.7
⑥	1.00	25.4	1.00	25.4
⑦	1/4-28 UNF-2B	M6 x 1-6H	1/2-20 UNF-2B	M12 x 1.75-6H
⑧	1.75	44.5	2.00	50.8
⑨	1.38	35.1	1.94	49.3
⑩	0.75	19.1	1.25	31.8