

Model SML Low Height Load Cell

Why the Interface model SML Low Height Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- From 3/4" high
- .05% accuracy
- Low extraneous load sensitivity
- Tension and compression
- .0008%/°F temperature effect on output
- Overload protection (SML-5 and SML-10)



STANDARD CONFIGURATION

- 5 ft Integral Cable (SML-nn)

OPTIONS*

- Extra Cable Length
- Studs Instead of Threaded Holes

ACCESSORIES*

Instrumentation

*See appendix for more technical information

SPECIFICATIONS

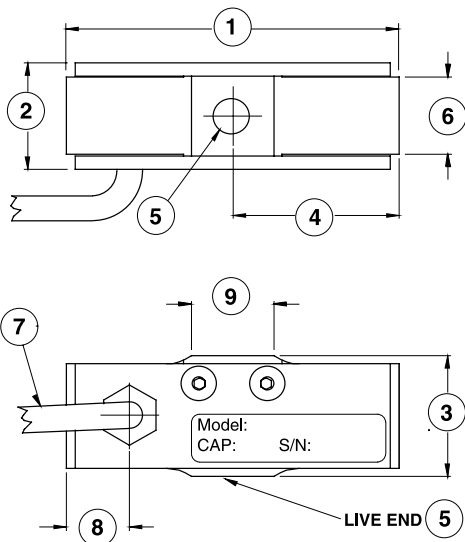
ACCURACY - (MAX ERROR)	5-300	500, 1000
Nonlinearity-% FS	± 0.05	± 0.10
Hysteresis-% FS	± 0.05	± 0.10
Nonrepeatability-% RO	± 0.03	
Creep, in 20 min-%	± 0.05	

TEMPERATURE	
Compensated Range-°F	0 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 Zero-% RO/°F - MAX	± 0.005

ELECTRICAL	
Rated Output-mV/V (Nominal)	2.0
Zero Balance-% RO	± 1.0
Bridge Resistance-Ohm (Nominal)	350
Excitation Voltage - MAX	15 VDC
Insulation Resistance - Megohm	> 5000

MECHANICAL	
Calibration	Tension
Safe Overload-% CAP:	
5, 10 lbf	800
25-1000 lbf	150
Cable length-ft	5
Natural Frequency/Deflection:	

lbf	Deflection (inches)	Nat. Freq. (Hertz)
5,10	.005	3000
25	.004	2500
50	.003	3300
100	.003	5000
200,300	.003	4500
500,1000	.003	1800



DIMENSIONS

See Drawing	5, 10		CAPACITY (lbf) 25, 50, 100		200, 300 500,1000	
	inch	mm	inch	mm	inch	mm
①	1.80	45.7	2.00	50.8	2.12	53.8
②	0.52	13.2	0.64	16.4	0.90	22.9
③	0.73	18.6	0.73	18.6	0.98	24.9
④	0.90	22.9	1.00	25.4	1.06	26.9
⑤	10-32 UNF-2B .20 deep		1/4-28 UNF-2B .25 deep		3/8-24 UNF-2B .38 deep	
⑥	0.34	8.6	0.46	11.8	0.72	18.3
⑦	0.13	3.3	0.13	3.3	0.13	3.3
⑧	0.29	7.4	0.38	9.7	.46	11.7
⑨	0.50	12.7	0.50	12.7	0.57	14.5