

# 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
- Performance to .05%
- Low extraneous load sensitivity
- Tension & 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

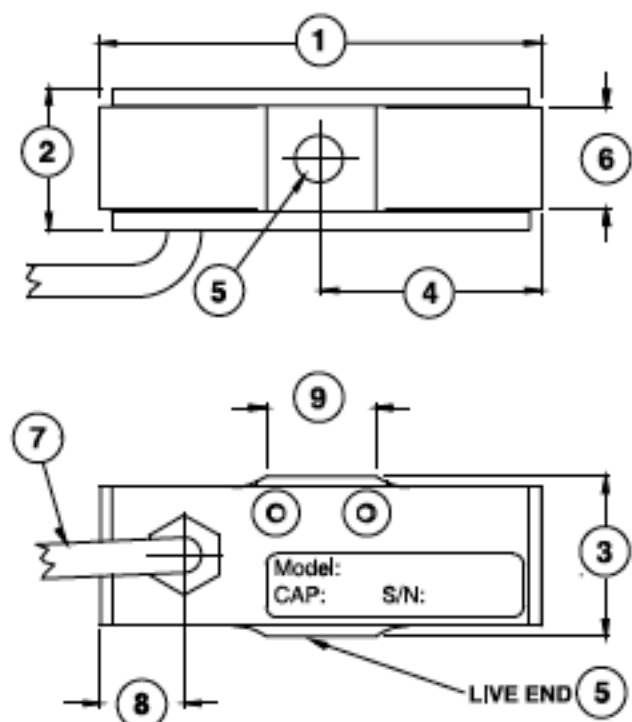
<b>ACCURACY - (MAX ERROR)</b>	5-300	500, 1000
Nonlinearity-% FS	±0.05	±0.10
Hysteresis-% FS	±0.05	±0.10
Nonrepeatability-% RO	±0.03	
Creep, in 20 min-%	±0.05	
<b>TEMPERATURE</b>		
Compensated Range-°F	0 to 150	
Compensated Range-°C	-15 to 65	
Operating Range-°F	-65 to 200	
Operating Range-°C	-55 to 90	
Effect on Output-%/°F - MAX	±0.0008	
Effect on Zero-% RO/°F - MAX	±0.005	

<b>ELECTRICAL</b>		
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	

<b>MECHANICAL</b>		
Calibration	T & C	
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	CAPACITY (lbf)					
	5, 10		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