

# Model SML Low Height Load Cell

- Proprietary Interface temperature compensated strain gages
- From 3/4" high (19mm)
- Performance to .05%
- Low extraneous load sensitivity
- Tension and compression
- .0008%/F° temperature effect on output
- Overload protection, SML-5 and SML-10 (SML-22N and SML-45N)



## STANDARD CONFIGURATION

5 ft. (1.5m) Integral Cable (SML-nn)

## OPTIONS

Extra Cable Length  
Studs Instead of Threaded Holes

## ACCESSORIES

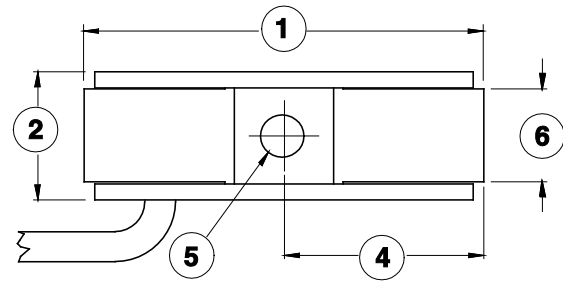
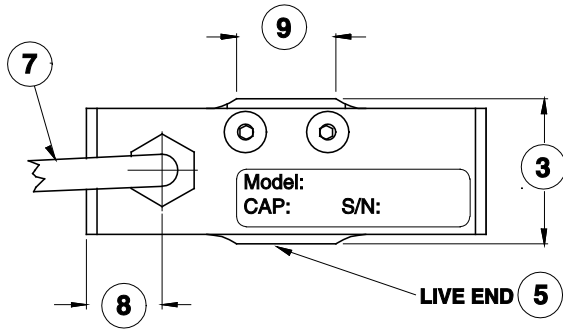
Instrumentation

## SPECIFICATIONS

<b>ACCURACY – (MAX ERROR)</b>	5-300 lbf (22-1300N)	500, 1000 lbf (2200, 4500N)	2000 lbf (9000N)
Nonlinearity-% FS	±0.05	±0.10	±0.20
Hysteresis-% FS	±0.05	±0.10	±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 (%/°C)	±0.0008 (±0.0015)		
Effect on Zero- % RO/°F (% RO/°C)	±0.005 (±0.009)		
<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	Tension		
Safe Overload-% CAP	800		
5, 10 lbf (22, 45N)	150		
25-2000 lbf (110-9000N)	5ft (1.5m)		

### Natural Frequency/Deflection:

lbf	N	Deflection		Natural Frequency (Hertz)
		inches	mm	
5,10	22, 45	.005	.13	3000
25	110	.004	.09	2500
50	220	.003	.08	3300
100	450	.003	.08	5000
200, 300	900, 1300	.003	.08	4500
500, 1000	2200, 4500	.003	.08	1800
2000	9000	.004	.09	1800



## DIMENSIONS

See Drawing	CAPACITY							
	5, 10 (lbf) 22, 45 (N)		25, 50, 100 (lbf) 110, 220, 450 (N)		200, 300, 500, 1000 (lbf) 900, 1300, 2200, 4500 (N)		2000 (lbf) 9000 (N)	
	inch	mm	inch	mm	inch	mm	inch	mm
(1)	1.80	45.7	2.00	50.8	2.12	53.8	2.80	71.1
(2)	0.52	13.1	0.64	16.3	0.89	22.6	1.16	29.6
(3)	0.73	18.5	0.73	18.5	0.98	24.8	1.24	31.5
(4)	0.90	22.9	1.00	25.4	1.06	26.9	1.40	35.6
(5)	10-32 UNF-2B .20 deep M5x0.8-6H 5.0 deep		1/4-28 UNF-2B .25 deep M6x1-6H 6.0 deep		3/8-24 UNF-2B .38 deep M8x1.25-6H 8.0 deep		1/2-20 UNF-2B .49 deep M12x1.75-6H 12.0 deep	
(6)	0.34	8.6	0.46	11.8	0.71	18.1	1.00	25.5
(7)	0.13	3.3	0.13	3.3	0.13	3.3	0.13	3.3
(8)	0.29	7.4	0.38	9.7	.46	11.7	0.75	19.0
(9)	0.50	12.7	0.50	12.7	0.57	14.5	0.77	19.6