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TECHNOLOGY GROUP

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Artisan Technology Group
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interface
ADVANCED FORCE MEASUREMENT

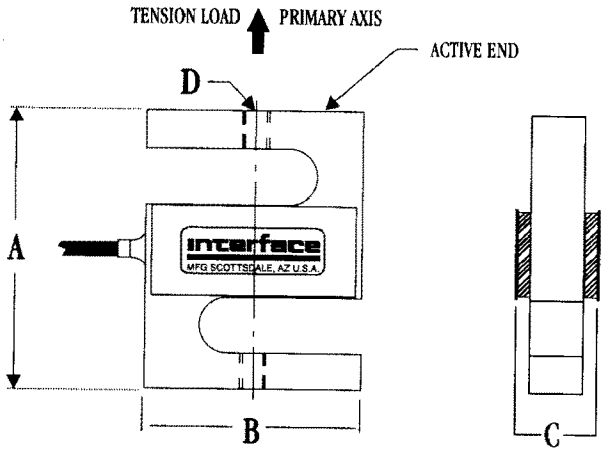
SSM

CALIBRATION CERTIFICATE
INSTALLATION INFORMATION

INSTALLATION DIMENSIONS

INCHES (mm)

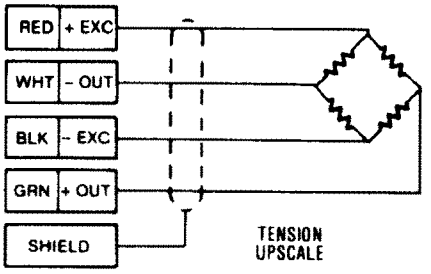
MODEL		A	B	C	D
SSM-50	in.	2½	2	⅞	¼-28 UNF-2B
	mm	64	51	22	¼ deep, top & bottom
SSM-100, 150, 250	in.	2½	2	¾	¼-28 UNF-2B
	mm	64	51	19	¼ deep, top & bottom
SSM-500, 750 1000, 2000, 3000	in.	3	2	1¼	½-20 UNF-2B
	mm	76	51	32	½ deep, top & bottom
SSM-5000	in.	3½	2½	1¾	⅝-18 UNF-2B
	mm	89	64	44	⅝ deep, top & bottom



ELECTRICAL INFORMATION

The SSM-50 thru SSM-250 is supplied with a 4-conductor shielded cable (AWG28) 10ft. (3m) long. The SSM-500 thru SSM-5000 load cells are supplied with rugged cable (PVC Jacket AWG22) 10ft. (3m) long or a Bendix PC04E-10-6P connector. A PC06W-10-6S mating connector is available at additional cost.

CONNECTOR (SSM-500 thru 5000)		CABLE (ALL MODELS)	
PIN	FUNCTION	COLOR	FUNCTION
A	+Excitation	Red	+Excitation
B	+Output	Green	+Output
C	–Output	White	–Output
D	–Excitation	Black	–Excitation
E	No Connection	Shield	No Connection
F	No Connection		



Wiring Code Complies with ISA S37.8 "Specification and Tests for Strain Gage Force Transducers" and SMA Load Cell Terminology.

APPLICATION NOTES

1. The Sealed Super-Mini load cell is specially designed for outdoor usage and thus can be used in scale pits and batching plants or other locations that are directly exposed to the weather.
2. At least one diameter thread engagement is desirable; normal engagement is shown below:
   SSM-50 thru SSM-250: 1/4" (6mm) to 1/2" (12mm)
   SSM-500 thru SSM-3000: 1/2" (12mm) to 5/8" (16mm)
   SSM-5000: 5/8" (16mm) to 3/4" (19mm)
3. SSM-50 thru and including SSM-1000 are anodized aluminum. All other units are electroless nickel plated steel.

Bottoming out of the mounting stud can cause irreparable damage to the load cell.

4. Jam nuts may be used; however, react torque only on the load cell structure adjacent to the jam nut and limit torque to:

SSM-50:	20-inch pounds	(2.2N•m)
SSM-100 thru SSM-250:	40-inch pounds	(4.5N•m)
SSM-500 thru SSM-1000:	200-inch pounds	(22.5N•m)
SSM-2000 thru SSM-3000:	800-inch pounds	(90N•m)
SSM-5000:	1000-inch pounds	(113N•m)

5. The force to be measured should be applied to the active end of the cell to eliminate possible errors due to cable interaction. The active end of the cell is separated from the cable/connector side by the slot (cutout) in the flexure (the serial number is always shown on the inactive end.)

PERFORMANCE DATA

Rated Output–mV/V Nominal 3
Input Resistance–Ohms ..... 350 + 50/-3.5
Output Resistance–Ohms ..... 350 ± 3.5
Recommended Excitation–VDC 10
Non-Linearity–% FS ..... < ±0.05
Hysteresis–% FS ..... < ±0.03
Temperature Range, Compensated–
°F (-15 to 65°C) ..... 0 to 150
Temperature effect on zero–
% Rated Output/100°F (55.6°C) ..... ±0.15
Zero Balance–% Rated Output ..... < ±1

SEALED SUPER-MINI LOAD CELL

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WARRANTY & CERTIFICATION STATEMENT ON OTHER SIDE

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