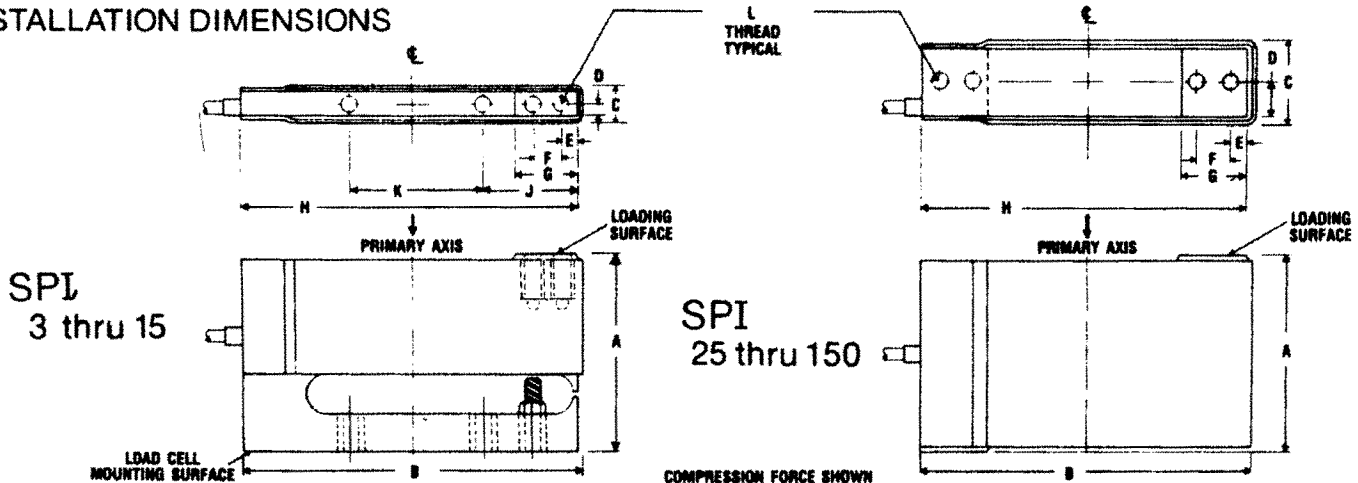


INSTALLATION DIMENSIONS



MODEL	A	B	C	D	E	F	G	H	J	K	L	Torque In-lb	
SPI-3	in.	3	5 1/8	1/2	3/16	1/4	.50	1	5	1 1/2	2	10-32	24
	mm	76	130	12.7	4.2	6.4	12.7	25	127	38	51		
SPI-7.5	in.	3	5 1/8	3/4	1/4	1/4	.50	1	5	1 1/2	2	1/4-28	36
	mm	76	130	19	6.4	6.4	12.7	25	127	38	51		
SPI-15	in.	3	5 1/8	1 1/4	1/2	1/4	.50	1	5	1 1/2	2	1/4-28	36
	mm	76	130	32	12.7	6.4	12.7	25	127	38	51		

MODEL	A	B	C	D*	E*	F*	G*	H	L	Torque In-lb	
SPI-25 & 50	in.	3	5 1/8	1 1/4	1/2	1/4	.50	1	5	1/4-28	60
	mm	76	130	32	12.7	6.4	12.7	25	127		
SPI-100	in.	3	6 1/8	1 1/4	1/2	1/4	1.00	1.5	6	1/4-28	60
	mm	76	156	32	12.7	6.4	25	38	152		
SPI-AAB-50 SPI-150	in.	3	6 1/8	1 1/4	1/2	1/4	1.00	1.5	6	1/4-28	90
	mm	76	156	32	12.7	6.4	25	38	152		

Warning: Exceeding recommended torque levels may damage load cells.

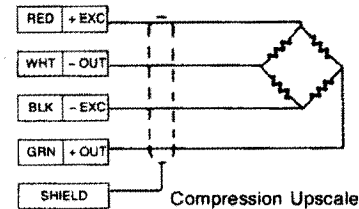
Mounting Instructions: Fasten mounting surface to flat surface with two mounting screws. Fasten load receiver to loading surface with two screws.

*Typical two places on all SPIs 25 thru 150

ELECTRICAL INFORMATION

SPI Series is provided with 4-conductor shielded cable (AWG 28) 5 feet (1.5m) long.

Wiring color code complies with ISA S37.8 "Specifications and Tests for Strain Gage Force Transducers" and SMA Load Cell Terminology.



APPLICATION NOTES

- Single Point I load cells are designed for controlled environmental applications. In general they can be used anywhere a readout instrument is used.
- A moisture resistant coating is applied to protect the SPI Series from high humidity conditions up to and including 95% relative humidity and periodic exposure to condensation. These units are not intended for submerged operation.
- Recommended mounting screw thread engagement: 3/8 to 1/2 in. (9 to 13 mm).
- Mounting surface should be level within 0.5° for best shift error.
- Please exercise caution to avoid overloading these low capacity load cells while handling and installing them.
- Maximum Moment

Rated Capacity	Maximum Moment
0-3 lb.	9 lb-in.
0-7.5 lb.	22.5 lb-in.
0-15 lb.	45 lb-in.
0-25 lb.	125 lb-in.
0-50 lb.	250 lb-in.
0-100 lb.	500 lb-in.
0-150 lb.	500 lb-in.
- Applications involving impact/overload forces may require external stops. Request INTERFACE publication IFI #59 for additional information.

PERFORMANCE DATA

Nominal Output—mV/V	3
Input Resistance—Ohms	350 + 50/- 3.5
Output Resistance—Ohms	350 ± 3.5
Recommended Excitation—VDC	10
Non-Linearity—% Rated Output	< ± 0.02
Hysteresis—% Rated Output	< ± 0.02
Temperature Range,	
Compensated—°F	(- 10 to + 45°C)
15 to 115	
Temperature Effect on Zero—	
% Rated Output/100°F	(% Rated Output/55.6°C)
± 0.15	
Zero Balance—% Rated Output	< ± 5
Shift Error: Rated Load applied 3 inches (76 mm) for SPI-3 thru 15 and 5 inches (127 mm) for SPI-25 thru 150, from Load Cell centerline—	
% Rated Load/inch	(% Rated Load/25.4 mm)
0.012	

SINGLE POINT I LOAD CELL

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WARRANTY & CERTIFICATION STATEMENT ON OTHER SIDE