

SSM/SSM2 SEALED S-TYPE LOAD CELL (U.S. & METRIC)

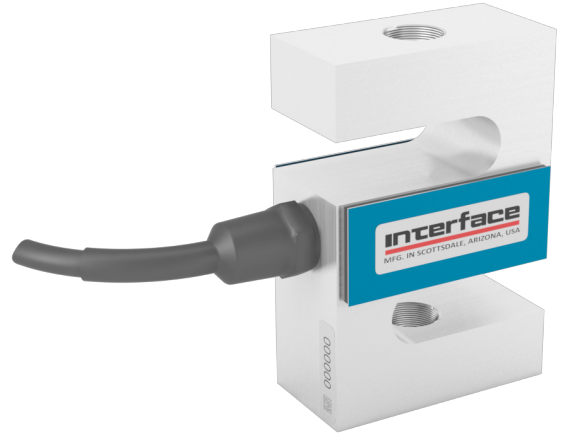
FEATURES & BENEFITS

- Proprietary Interface temperature compensated strain gages
- Environmentally sealed
- 0.02% non-repeatability
- 0.0008%/°F (0.0015%/°C) temp. effect on output
- 0.025% creep
- Tension and compression

SPECIFICATIONS

ACCURACY – (MAX ERROR)				
Nonlinearity – %FS		±0.05		
Hysteresis – %FS		±0.03		
Nonrepeatability – %RO		±0.02		
Creep, in 20 min – %		±0.025		
TEMPERATURE				
Compensated Range	°F	0 to +150		
	°C	-15 to +65		
Operating Range	°F	-65 to +200		
	°C	-55 to +90		
Effect On Output – % / deg	°F	±0.0008		
	°C	±0.0015		
Effect On Zero – %RO / deg	°F	±0.0015		
	°C	±0.0027		
ELECTRICAL				
Rated Output – mV/V (Nominal)		3		
Zero Balance – %RO		±1		
Bridge Resistance – Ohm (Nominal)		350		
Excitation Voltage – VDC MAX		15		
Insulation Resistance – Megohm		> 5000		
MECHANICAL				
Safe Overload – % CAP		150		
NATURAL FREQUENCY/DEFLECTION				
lbf	N	Deflection		Nat. Freq. (Hz)
		in	mm	
25	10	0.003	0.08	1500
50	200	0.003	0.08	1500
100	250	0.004	0.1	1850
125	500	0.004	0.1	1850
150	700	0.004	0.1	1850
250	1K	0.006	0.15	2350
500	2K	0.005	0.13	2150
750	2.5K, 3K	0.005	0.13	2350
1K	5K	0.005	0.13	3350
2K	10K	0.005	0.13	2400
3K	N/A	0.005	0.13	3000
2.5K, 5K	15K, 20K	0.005	0.13	2520
5K, 10K	25K, 50K	0.005	0.13	2520
Material		25 - 1K lbf		Aluminum
		100 - 5K N		
		2K - 10K lbf		Alloy steel
		10K - 50K N		

STANDARD CONFIGURATION



MODEL SSM (Shown)

OPTIONS

- PC04E-10-6P connector on load cell body (SSM-500 lbf / SSM-2 kN and above)
- Standardized output
- Special temperature range
- Cable length
- Transducer Electronic Data Sheets (TEDS)
- Add connector to cable

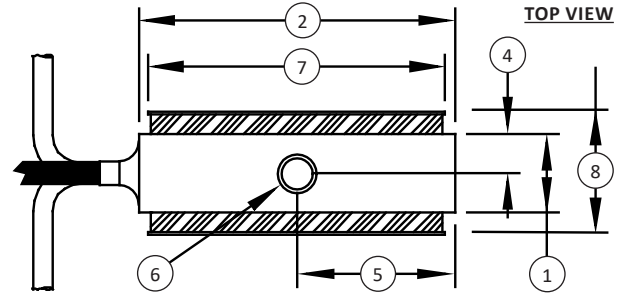
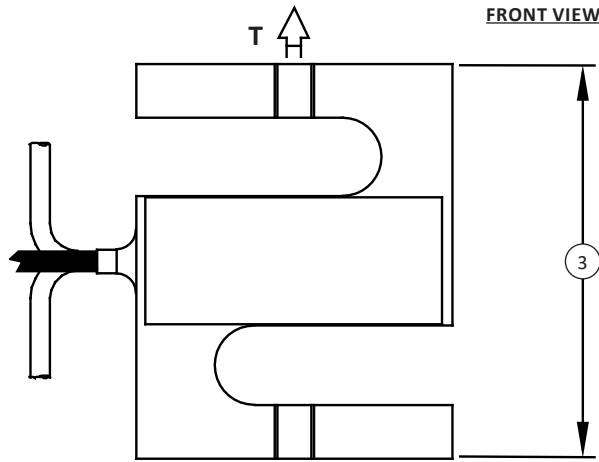
ACCESSORIES

- Load button
- Instrumentation
- Mounting hardware

CONNECTOR OPTIONS

- 10 ft (3 m) integral cable

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Notes:
* T indicates tension load direction / primary axis

DIMENSIONS

See Drawing	MODEL									
	SSM									
	CAPACITY									
	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)
	25, 50	100, 200	100, 125, 150	250, 500, 700	250	1K	500	2K	750, 1K	2.5K, 3K, 5K
(1)	0.50	12.7	0.50	12.7	0.50	12.7	1.00	25.4	1.00	25.4
(2)	2.00	50.8	2.00	50.8	2.00	50.8	2.00	50.8	2.00	50.8
(3)	2.50	63.5	2.50	63.5	2.50	63.5	3.00	76.2	3.00	76.2
(4)	0.25	6.40	0.25	6.40	0.25	6.40	0.50	12.7	0.50	12.7
(5)	1.00	25.4	1.00	25.4	1.00	25.4	1.00	25.4	1.00	25.4
(6)	2X .250-28 UNF-2B	M6 X 1-6H	2X .250-28 UNF-2B	M6 X 1-6H	2X .250-28 UNF-2B	M6 X 1-6H	0.5-20 UNF-2B	M12 X 1.75-6H	0.5-20 UNF-2B	M12 x 1.75-6H
(7)	1.88	47.8	1.88	47.8	1.88	47.8	1.88	47.8	1.88	47.8
(8)	0.82	20.8	0.72	18.3	0.72	18.3	1.18	30.0	1.25	31.8

See Drawing	MODEL							
	SSM				SSM2			
	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)
	2K, 3K	10K	2.5K, 5K	15K, 20K	5K	25K	10K	50K
	in	mm	in	mm	in	mm	in	mm
(1)	0.98	24.9	1.50	38.1	1.48	37.6	1.48	37.6
(2)	1.98	50.3	2.50	63.5	2.98	75.7	2.98	75.7
(3)	2.98	75.7	3.50	88.9	3.98	101.1	3.98	101.1
(4)	0.50	12.7	0.75	19.1	0.74	18.8	0.74	18.8
(5)	1.00	25.4	1.25	31.8	1.49	37.8	1.49	37.8
(6)	½-20 UNF-2B	M12 x 1.75-6H	¾-18 UNF-2B	M16 x 2-6H	0.75-16 UNF-2B ↓ 0.75	M20 x 1.5-6H ↓ 18.5	0.75-16 UNF-2B ↓ 0.75	M20 x 1.5-6H ↓ 18.5
(7)	1.88	47.8	2.38	60.5	2.88	73.2	2.88	73.2
(8)	1.23	31.2	1.75	44.5	1.76	44.8	1.76	44.8

International System of Units (SI) dimensions and capacities are provided for conversion only. Standard products have U.S. capacities and dimensions. SI capacities available upon special request and at an additional cost.