Model SSM-Sealed S-Type Intrinsically Safe Load Cell (U.S. & Metric)

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

STANDARD CONFIGURATION

10 ft (3 m) Integral Cable

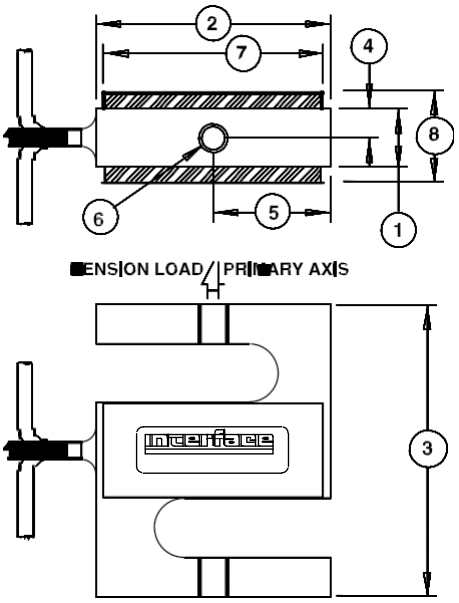
OPTIONS

Standardized Output
Special Cable Length - up to 30 ft (10 m)

ACCESSORIES

Load Button
Instrumentation
Mounting Hardware

Consult factory for more technical information



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 (°C)	0 to 150 (-15 to 65)
Operating Range–°F (°C)	-40 to 300 (-40 to 150)
Effect on Output–%/°F – MAX (°C)	±0.0008 (±0.0015)
Effect on Zero– % RO/°F – MAX (°C)	±0.0015 (±0.0027)
ELECTRICAL	
Rated Output–mV/V (Nominal)	3
Zero Balance–%RO	±1
Bridge Resistance–Ohm (Nominal)	350
Excitation Voltage–MAX	15 VDC
Insulation Resistance–Megohm	>5000
MECHANICAL	
Calibration	Tension
Safe Overload–% CAP	150
Cable Length–ft (m)	10 (3)
Natural Frequency/Deflection:	

lbf	N	Deflection (in)	Nat. Freq. (Hertz)
50	200	.003	1500
100	500	.004	1850
150	500	.004	1850
250	1000	.006	2350
500	2kN	.005	2150
750		.005	2350
1000	5kN	.005	3350
2000	10kN	.005	2400
3000		.005	3000
5000	20kN	.005	2520

DIMENSIONS

See Drawing	CAPACITY (lbf)							
	lbf	N	lbf	N	lbf	kN	lbf	kN
	50	200	100 150 250	500 700 1000	500 750 1K 2K 3K	2, 5 10	5K	20
	inch	mm	inch	mm	inch	mm	inch	mm
(1)	0.50	12.7	0.50	12.7	1.00	25.4	1.50	38.1
(2)	2.00	50.8	2.00	50.8	2.00	50.8	2.50	63.5
(3)	2.50	63.5	2.50	63.5	3.00	76.2	3.50	88.9
(4)	0.25	6.40	0.25	6.40	0.50	12.7	0.75	19.1
(5)	1.00	25.4	1.00	25.4	1.00	25.4	1.25	31.8
(6)	1/4-28 UNF-2B	M6 x 1-6H	1/4-28 UNF-2B	M6 x 1-6H	1/2-20 UNF-2B	M12 x 1.75-6H	5/8-18 UNF-2B	M16 x 2-6H
(7)	1.88	47.8	1.88	47.8	1.88	47.8	2.38	60.5
(8)	0.82	20.8	0.72	18.3	1.22	31.0	1.75	44.5

interface
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