

SSMH SEALED S-TYPE LOAD CELL FOR HAZARDOUS ENVIRONMENTS (US & METRIC)

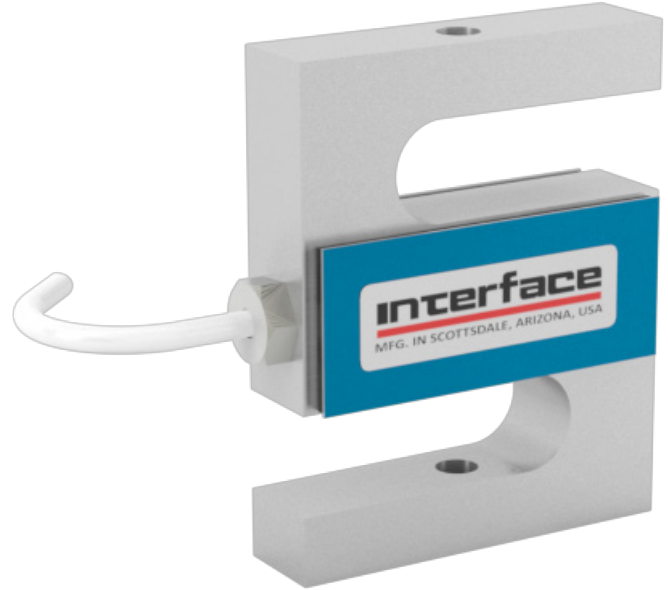
FEATURES & BENEFITS

- Tension and compression
- Environmentally sealed IP65
- Certified for use in hazardous locations when installed per supplied instructions
- High temperature rated, up to 290°F (143°C)
- II 2 GD
- Ex ib IIC T4 Gb (-40° < Ta < 112°C)
- Ex ib IIIC T160°C Db (-40° < Ta < 143°C)
- 15 ft (5 m) cable

SPECIFICATIONS

ACCURACY – (MAX ERROR)				
Nonlinearity – %FS				±0.05
Hysteresis – %FS				±0.03
Non-repeatability – %RO				± 0.02
Creep, in 20 min – %				± 0.025
TEMPERATURE				
Compensated Range	°F			0 to +150
	°C			-15 to +65
Operating Range	°F			-40 to +290
	°C			-40 to +143
Effect on Zero – %RO MAX	°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				
Calibration				Tension
Safe Overload – %CAP				150
NATURAL FREQUENCY/DEFLECTION				
lbf	N	Deflection		Nat. Freq. (Hz)
		in	mm	
50	200	0.003	0.08	1500
100	500	0.004	0.1	1850
150	700	0.004	0.1	2000
250	1K	0.006	0.15	2350
500	2K	0.005	0.13	2150
750	3K	0.005	0.13	2350
1K	5K	0.005	0.13	3350
2K	10K	0.005	0.13	2400
3K	15K	0.005	0.13	3000
5K	20K	0.005	0.13	2520
Material		50 to 1K lbf		Aluminum
		200 to 5K N		
		2K to 5K lbf		Alloy steel
		10K to 20K N		

STANDARD CONFIGURATION



Model SSMH (shown)

INTRINSIC SAFETY ENTITY PARAMETERS	
Ui	20 V
Ii	460 mA
Pi	1.3 W
Ci*	15 nF
Li*	51 µH

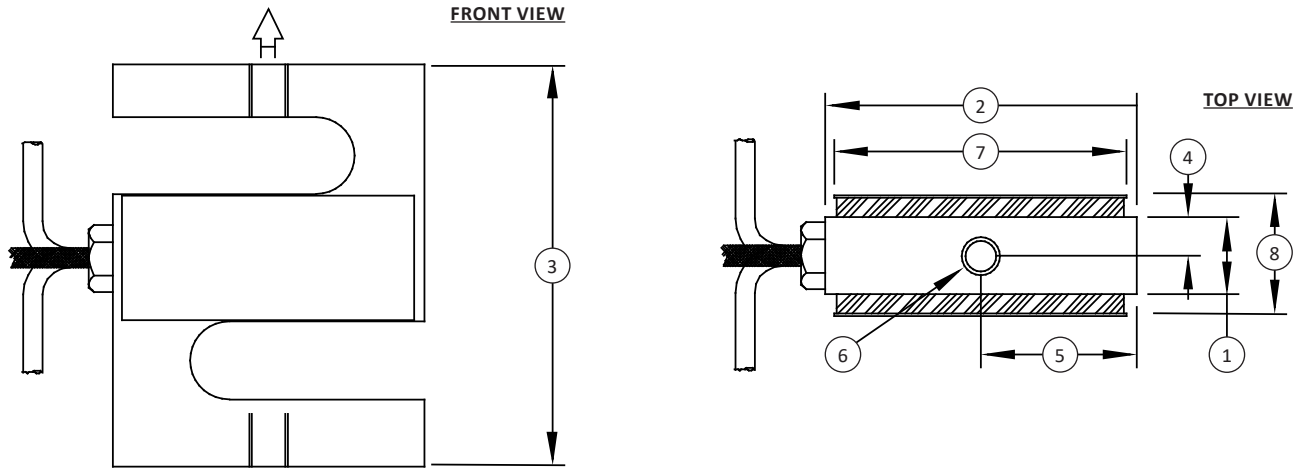
*With up to 300 ft (100 m) cable

OPTIONS

- Cable length
- Custom calibration
- Special temperature range



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DIMENSIONS

See Drawing	CAPACITY							
	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)	U.S. (lbf)	Metric (N)
	50	200	100, 150, 250	500, 700, 1K	500, 750, 1K, 2K, 3K	2K, 3K, 5K, 10K, 15K	5K	20K
	in	mm	in	mm	in	mm	in	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)	¼-28 UNF-2B	M6 x 1-6H	¼-28 UNF-2B	M6 x 1-6H	½-20 UNF-2B	M12 x 1.75-6H	¾-18 UNF-2B	M16 x 2-6H
(7)	1.88	47.8	1.88	47.8	1.88	47.8	2.38	60.5
(8)	0.70	17.8	0.70	17.8	1.20	35.0	1.72	43.7