

Model: MSTF

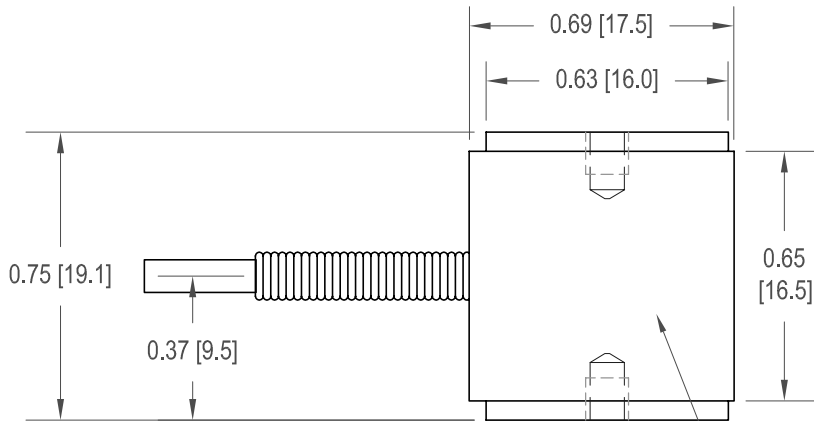
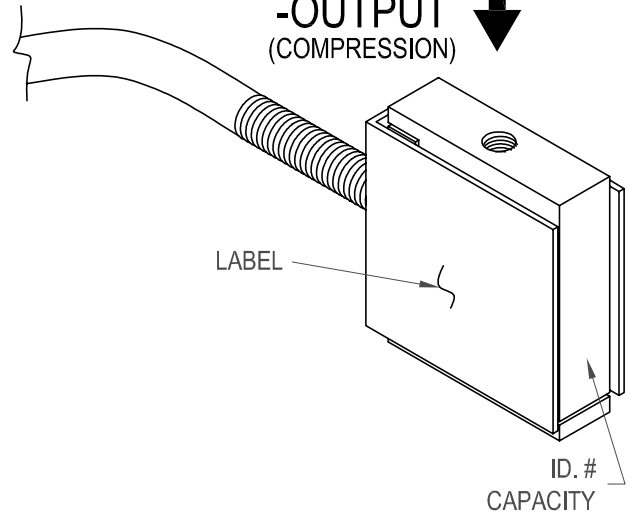
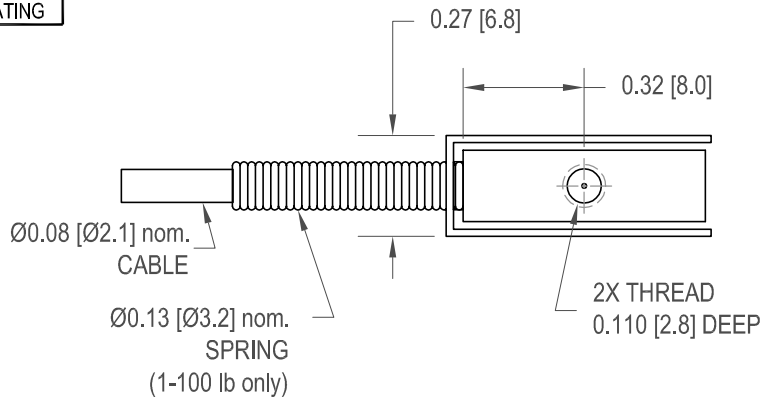
MINIATURE S-TYPE LOAD CELL

DESIGNED FOR INLINE LOADING IN TENSION & COMPRESSION
AVAILABLE IN #4-40 AND M3x0.5 METRIC THREADS

INCH [mm]		R.O.= Rated Output	
WIRING CODE			
+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE
Shield			
FLOATING			

+OUTPUT
(TENSION)

-OUTPUT
(COMPRESSION)



SPECIFICATIONS:

RATED OUTPUT
SAFE OVERLOAD SEE CHART
1000% of R.O.

ZERO BALANCE**
EXCITATION (VDC OR VAC) 200% of R.O. Tension Only (50-100 lb)*
BRIDGE RESISTANCE ±3% of R.O., ±5% of R.O. (10-20g)
NONLINEARITY 5 Max
HYSTERESIS SEE CHART
NONREPEATABILITY ±0.1% of R.O.
TEMP. SHIFT ZERO ±0.1% of R.O.
TEMP. SHIFT SPAN ±0.1% of R.O.
COMPENSATED TEMP. ±0.05% of R.O.
OPERATING TEMP. ±0.01% of R.O./°F [0.018% of R.O./°C]
MATERIAL 60 to 160°F [15 to 72°C]
WEIGHT -60 to 200°F [-50 to 93°C]
DEFLECTION ALUMINUM (10g-10lb), STAINLESS STEEL (25-100lb)
0.3 oz [9 g]
CABLE: #29 AWG, 4 Conductor, Spiral Shielded Silicone Cable, 5 ft [1.5 m] Long
ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE
CALIBRATION (STD) 0.003-0.005 [0.07-0.13]
CALIBRATION (AVAILABLE) 5 pt TENSION; SEE CHART FOR SHUNT CAL VALUE.
CALIBRATION TEST EXCITATION COMPRESSION
5 VDC

*SENSOR STRUCTURE CAN HANDLE HIGH OVERLOADS BUT #4-40 and M3x0.5
THREADS MAY LIMIT OVERLOAD AT HIGHER CAPACITY
** ZERO BALANCE IS BASED ON LAYING SENSOR ON ITS SIDE (THREADS HORIZONTAL)

Model	Capacity lb (N)	Thread Size	R.O. (nom.)	BRIDGE RESISTANCE	SHUNT CAL. VALUE
MSTF	10g	#4-40	0.5 mV/V	1000 Ω nom.	301K Ω
MSTF-M	(0.1)	M3x0.5			
MSTF	20g	#4-40	1 mV/V		
MSTF-M	(0.2)	M3x0.5			
MSTF	50g	#4-40	2 mV/V	350 Ω nom.	60.4K Ω
MSTF-M	(0.5)	M3x0.5			
MSTF	100g	#4-40	2 mV/V		
MSTF-M	(1.0)	M3x0.5			
MSTF	250g	#4-40	2 mV/V		
MSTF-M	(2.5)	M3x0.5			
MSTF	1	#4-40	2 mV/V		
MSTF-M	(4.5)	M3x0.5			
MSTF	2	#4-40	2 mV/V		
MSTF-M	(8.9)	M3x0.5			
MSTF	5	#4-40	2 mV/V		
MSTF-M	(22.2)	M3x0.5			
MSTF	10	#4-40	2 mV/V		
MSTF-M	(44.5)	M3x0.5			
MSTF	25	#4-40	2 mV/V		
MSTF-M	(111)	M3x0.5			
MSTF	50	#4-40	2 mV/V		
MSTF-M	(222)	M3x0.5			
MSTF	100	#4-40	2 mV/V		
MSTF-M	(445)	M3x0.5			

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