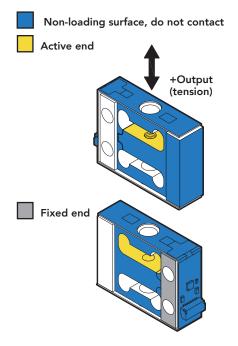




FEATURES

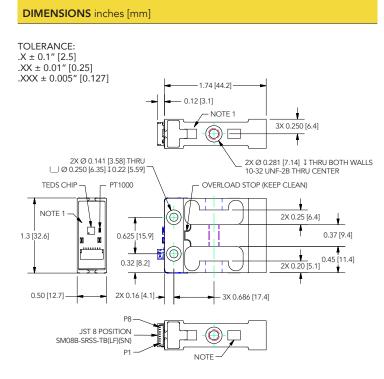
- ٠ Integrated IEEE1451.4 TEDs Autorecognition and PT1000 temperature sensor
- Intended for high volume applications •
- Easily integrates into OEM applications •
- Integrated Overload Protection to mitigate • sensor damage
- Low power consumption •
- Exceptional nonlinearity and nonrepeatability
- Can integrate analog VDC, mA or custom ٠ embedded electronics such as digital SPI, I2C, RS-232, UART output, and more



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SPECIFICATIONS				
LOAD CELL PERFORMANCE				
Nonlinearity	±0.02% of RO (2.2–100 lb) ±0.06% (200 lb)			
Hysteresis	±0.02% of RO (2.2–100 lb) ±0.06% (200 lb)			
Nonrepeatability	±0.02% of RO			
Сгеер	±0.025% of Load			
LOAD CELL ELECTRICAL				
Rated Output (RO)	2 mV/V nom			
Excitation (VDC or VAC)	18 max			
Bridge Resistance	1000 Ohm nom			
Insulation Resistance	≥500 Mohm @ 50 VDC			
Connection	8 position JST Connector			
MECHANICAL				
Weight (approximate)	1 oz [28 g] (2.2-100 lb) 3 oz [85g] (200 lb)			
Safe Overload	See chart on next page			
Material	Aluminum (2.2–100 lb) Stainless Steel (200 lb)			
IP Rating	IPOO			
LOAD CELL TEMPERATURE				
Operating Temperature	-13 to 185°F [-25C to 85°C]			
Compensated Temperature	60 to 160°F [15 to 72°C]			
Temperature Shift Zero	±0.005% of RO/°F [0.01% of RO/°C]			
Temperature Shift Span	±0.005% of Load/°F [0.01% of Load/°C]			
LOAD CALIBRATION				
Load Calibration	10 VDC			
Calibration (standard)	Certificate of Conformance			
Calibration (available)	5-pt Tension and Compression			
Shunt Calibration Value	150 kOhm			
RTD OUTPUT				
RTD Tolerance Class	F0.3 (Class B) = ± (0.3 + 0.005 x Temperature (°C))			
Temperature Sensor Current Range	0.1 to 0.3 mA			
CONFORMITY				
RoHS	EU 2015/863			
CE	EN55011; EN61326-1			
RTD Sensor	Compliant to DIN EN 60751			
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Model LSM305



DO NOT CONTACT EXPOSED CIRCUITS/WIRES. MAINTAIN ~0.03" [0.8 mm] GAP AROUND SENSOR WITHIN FIXTURES TO AVOID CONTACT WITH EXPOSED COMPONENTS.

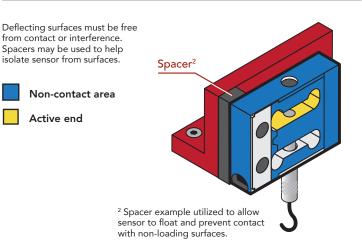
8 POSITION JST CONNECTOR	
P1	+ EXCITATION
P2	– EXCITATION
Р3	+ SIGNAL
P4	– SIGNAL
Р5	TEDS DATA
P6	RTD LINE 1
Р7	TEDS RETURN
P8	RTD LINE 2

COMPATIBLE CABLE ITEM NUMBER: FSH04653 NOT INCLUDED

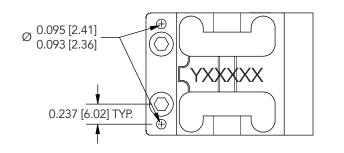
CAPACITIES						
ITEM #	lb	N	Deflection (in.)	Natural Frequency (Hz)	Safe Overload (lb/N)	
FSH04519	2.2	9.8	0.0084	260	250 / 1112	
FSH04520	5	22.2	0.0065	440	250 / 1112	
FSH04521	10	44.5	0.0059	650	250 / 1112	
FSH04522	25	111	0.0052	1080	250 / 1112	
FSH04523	50	222	0.0050	1550	250 / 1112	
FSH04524	100	445	0.0050	2180	250 / 1112	
FSH04525	200	890	0.0050	1700	400 / 1779 ¹	

¹ If additional pins are used

MOUNTING



ADDITIONAL HOLE LOCATIONS (200 lb only)



FUTEK reserves the right to modify its design and specifications without notice. Please visit www.futek.com/salesterms for complete terms and conditions.

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