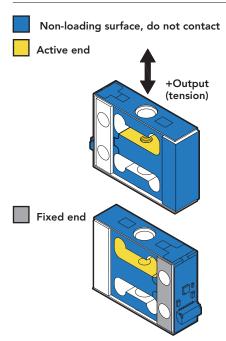




FEATURES

- Integrated IEEE1451.4 TEDs chip and PT-1000 temperature sensor
- Intended for high volume applications
- Easily integrates into OEM applications
- 2.5x to 100x Built-in overload protection
- Low power consumption
- Exceptional nonlinearity and nonrepeatability
- Can integrate analog VDC, mA or custom embedded electronics such as digital SPI, I2C, RS-232, UART output, and more



SPECIFICATIONS						
PERFORMANCE						
Nonlinearity	±0.02% of RO (2.2–100 lb)					
Hysteresis	±0.02% of RO (2.2–100 lb)					
Nonrepeatability	±0.02% of RO					
Creep	±0.025% of Load					
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					
Temperature Sensor Current Range	0.1 to 0.3 mA					
MECHANICAL						
Weight (approximate)	1 oz [28 g] (2.2-100 lb)					
Safe Overload	See chart on next page					
Material	Aluminum (2.2–100 lb)					
IP Rating	IP30					
TEMPERATURE						
Operating Temperature	-60 to 200°F [-50 to 93°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]					
CALIBRATION						
Calibration Test Excitation	10 VDC					
Calibration (standard)	Certificate of Conformance					
Calibration (available)	5-pt Tension and Compression					
Shunt Calibration Value	150 kOhm					
CONFORMITY						
RoHS	EU 2015/863					
CE	EN55011; EN61326-1					
RTD Sensor	Compliant to DIN EN60751					
RTD Tolerance Class	F0.3 (Class B) = ± (0.3 + 0.005 x Temperature (°C))					









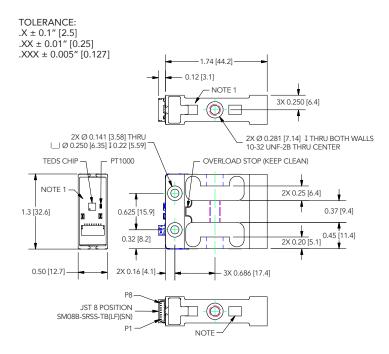






Model LSM305 2

DIMENSIONS inches [mm]



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

8 POSITION JST CONNECTOR	
P1	+ EXCITATION
P2	– EXCITATION
Р3	+ SIGNAL
P4	– SIGNAL
P5	TEDS DATA
P6	RTD LINE 1
P7	TEDS RETURN
P8	RTD LINE 2

CAPACITIES

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

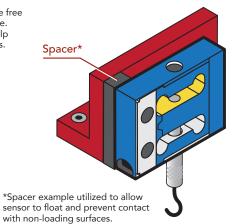
MOUNTING

Deflecting surfaces must be free from contact or interference. Spacers may be used to help isolate sensor from surfaces.



Non-contact area





COMPATIBLE CABLE ITEM NUMBER: FSH04653

Drawing Number: FI1540

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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