



FEATURES

- Lightweight at 5.6 grams and compact form factor of 0.3" [8.0 mm] height and 0.22" [5.6 mm] width.
- Side-mount design fits space-constrained applications.
- Shear force measurement enabled by side-mount configuration.
- Can integrate with VDC, mA, SPI, RS-422, USB, BLE, RS-232, UART output and more.
- Integrated Ø3mm pin-compatible loading and mounting provisions for repeatable fixturing and alignment.
- Safe overload stops in tension and compression up to 150% of Rated Output.
- Integrated IEEE 1451.4 TEDS auto-recognition minimizes setup errors.
- Designed for OEM high volume applications.
- Heat-treated, aerospace-grade stainless steel enhances durability, linearity, and off-center loading performance.

SPECIFICATIONS

PERFORMANCE

Nonlinearity $\pm 0.2\%$ of R.O. (5 and 10 lb)
 $\pm 0.3\%$ (25 and 50 lb)

Hysteresis $\pm 0.2\%$ of R.O. (5 and 10 lb)
 $\pm 0.3\%$ (25 and 50 lb)

Nonrepeatability $\pm 0.1\%$ of R.O.

ELECTRICAL

Rated Output (R.O.) See Capacities table

Excitation (VDC or VAC) 10 max

Bridge Resistance 350 Ohm nom

Connection 6 Position FFC FPC, Contact Top, 0.020" (0.50mm) Pitch, Molex #0512810698

MECHANICAL

Weight (approximate) 0.01 lb [5.6 g]

Safe Overload 150% of R.O.

Material 17-4 PH S.S.

IP Rating IP40

TEMPERATURE

Operating Temperature -4 to 185°F [-20 to 85°C]

Compensated Temperature 60 to 160°F [16 to 71°C]

Temperature Shift Zero $\pm 0.01\%$ of R.O./ $^{\circ}\text{F}$ [$\pm 0.018\%$ of R.O./ $^{\circ}\text{C}$]

Temperature Shift Span $\pm 0.005\%$ of Load/ $^{\circ}\text{F}$ [$\pm 0.009\%$ of Load/ $^{\circ}\text{C}$]

CALIBRATION

Load Calibration Test Excitation 5 VDC

Load Calibration (standard) Certificate of Conformance

Load Calibration (available) 5-pt Tension and Compression

CONFORMITY

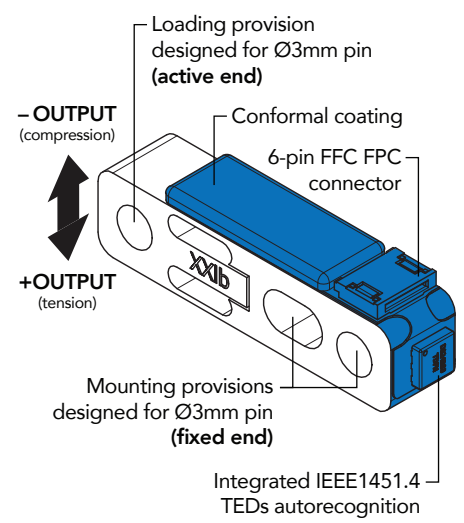
RoHS EU 2015/863

CE EN55011; EN61326-1

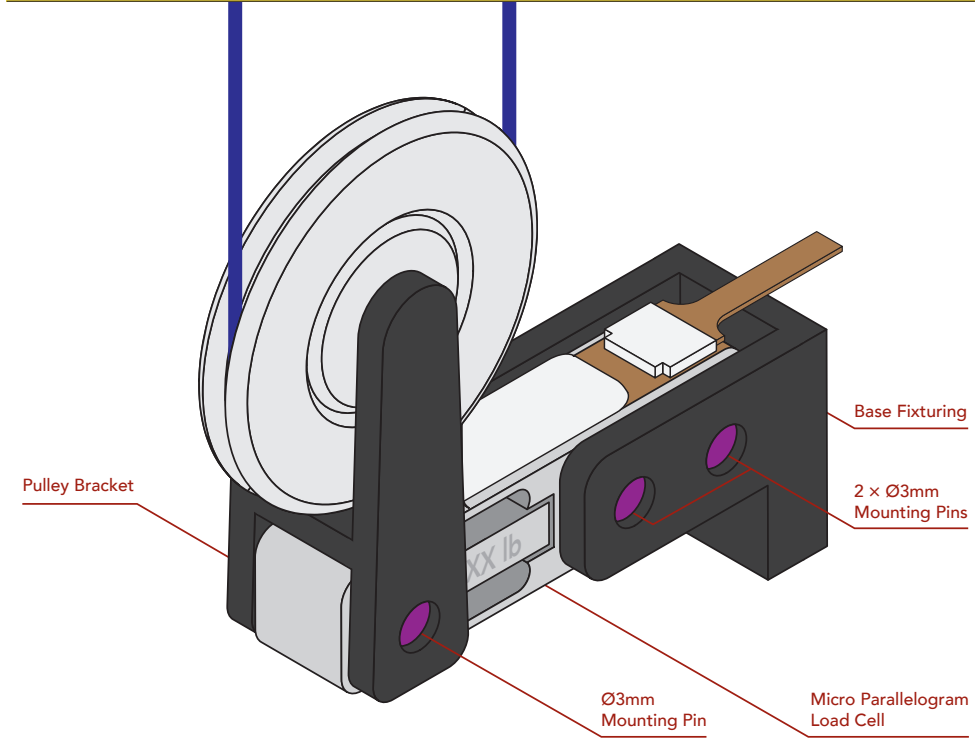
Model LSM100

FEATURES

 Non-loading surface, do not contact



MOUNTING



6 POSTION FFC FPC CONNECTOR	
PIN #	WIRING CODE
1	- EXCITATION
2	+ SIGNAL
3	- SIGNAL
4	+ EXCITATION
5	TEDS GND
6	TEDS DATA

CAPACITIES				
ITEM #	CAPACITY (lb/N)	OUTPUT (mV/V) Nom.	Deflection (in./mm)	Natural Frequency (kHz)
FSH04834	5/22.2	1	0.0005/0.0127	11
FSH04835	10/44.5	2	0.0010/0.0254	11
FSH04836	25/111.2	1.75	0.0010/0.0254	20
FSH04837	50/222.4	1.75	0.0015/0.0381	25

Model LSM100

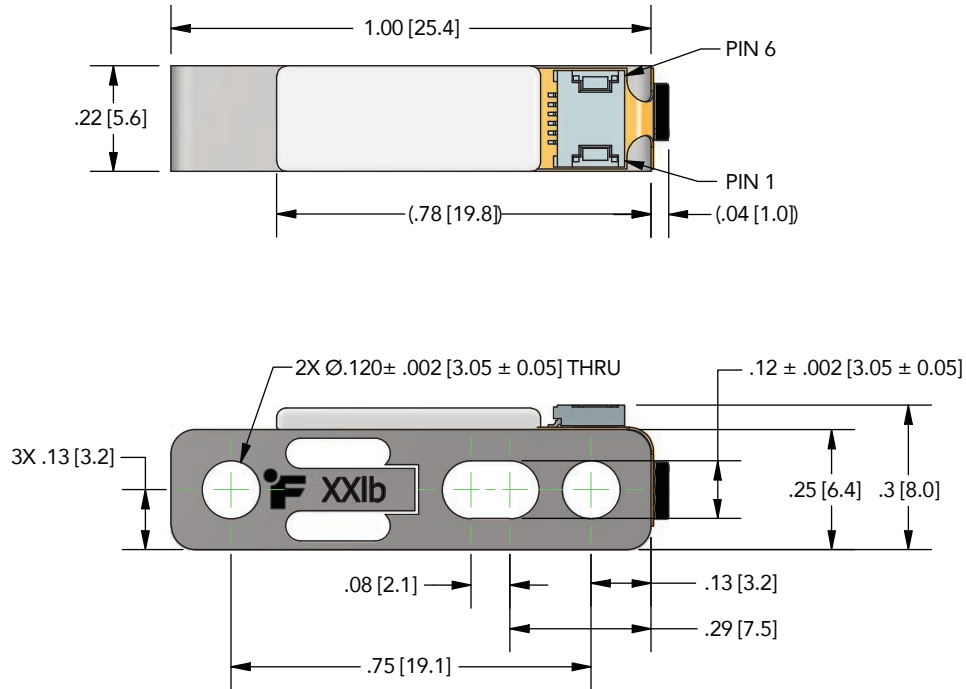
DIMENSIONS inches [mm]

TOLERANCE:

.X $\pm .1$ " [2.5]

.XX $\pm .01$ " [0.25]

.XXX $\pm .005$ " [0.127]



Drawing Number: FI1591

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RoHS



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