10 Thomas, Irvine, CA 92618 USA
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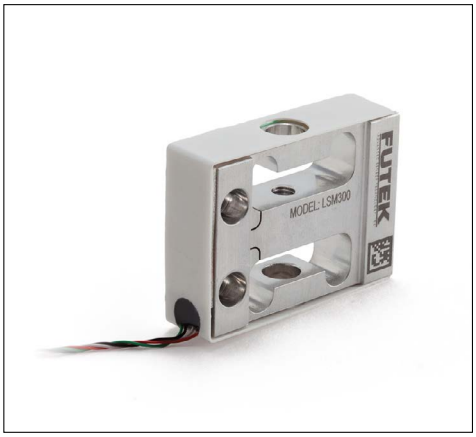
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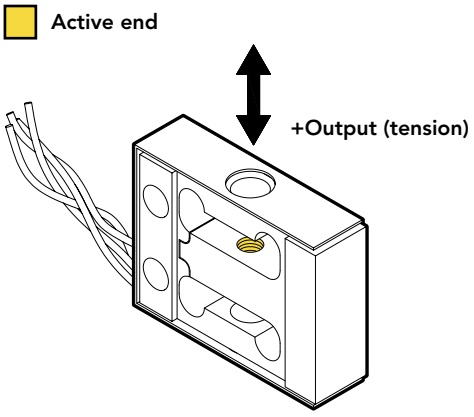
FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

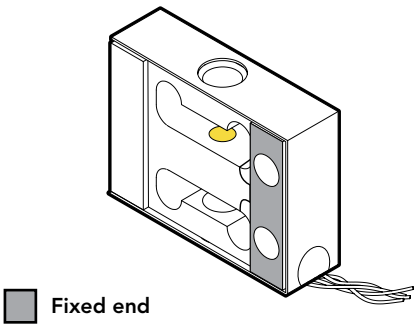
MODEL LSM300
OEM Load Cell



FEATURES

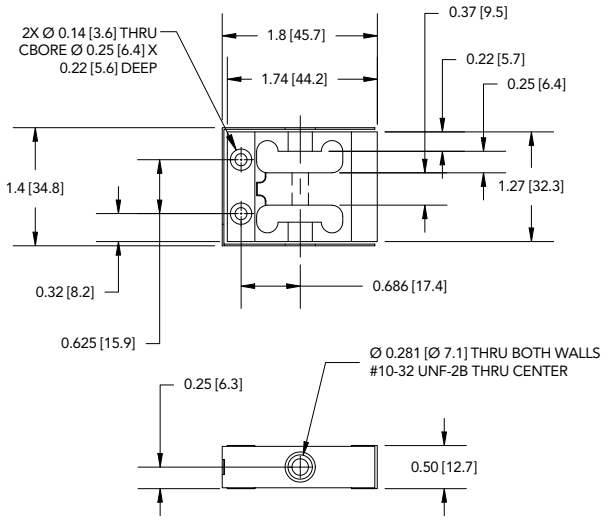
- Intended for high volume applications
- Easily integrates into OEM applications
- Built-in overload protection
- Exceptional nonlinearity and nonrepeatability
- Can integrate with analog VDC, mA, digital SPI, I2C, RS-232, UART output, and more





SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.02% of RO (2.2–100 lb) ±0.06% of RO (200 lb)
Hysteresis	±0.02% of RO (2.2–100 lb) ±0.06% of RO (200 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	#29 AWG, 4 conductor, spiral teflon cable, 6 in [152.4 mm] long
Wiring/Connector Code	WC2
MECHANICAL	
Weight (approximate)	1 oz [28 g] (2.2-100 lb) 3 oz [85 g] (200 lb)
Safe Overload	See chart on next page
Material	Aluminum (2.2–100 lb), 17-4 PH stainless-steel (200 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	2011/65/EU
CE	EN61326-1:2006

DIMENSIONS inches [mm]



CAPACITIES

ITEM #	lb	N	Deflection (in.)	Natural Frequency (Hz)	Safe Overload (lb)
FSH03974	2.2	9.8	0.0080	280	250
FSH03975	5	22.2	0.0065	468	250
FSH03976	10	44.5	0.0060	687	250
FSH03977	25	111	0.0055	1134	250
FSH03978	50	222	0.0055	1593	250
FSH03979	100	445	0.0060	2157	250
FSH03980	200	890	0.0055	1773	400*

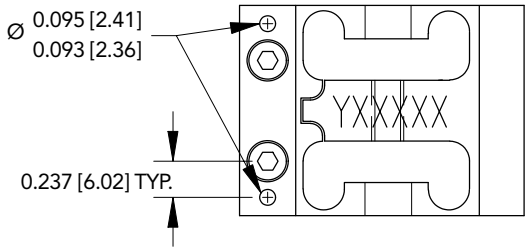
*If additional pins ar used

WIRING CODE (WC2)

GREEN	+ EXCITATION
BLACK	– EXCITATION
WHITE	+ SIGNAL
RED	– SIGNAL

*Color code for this sensor is not FUTEK standard

ADDITIONAL HOLE LOCATIONS (200 LB ONLY)



Drawing Number: FI1400

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