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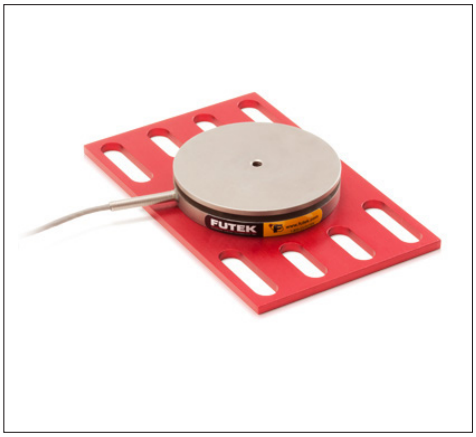
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FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

MODEL LAU200
Pedal Force Sensor

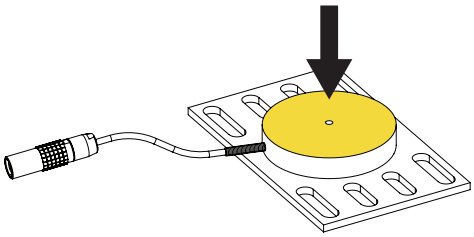


FEATURES

- Ideal for Automotive Applications involving accelerator or clutch testing
- Ideal for Aerospace Applications involving pedal force testing
- Strain Gauge Based
- Low Profile Height
- Removable Mounting Plate

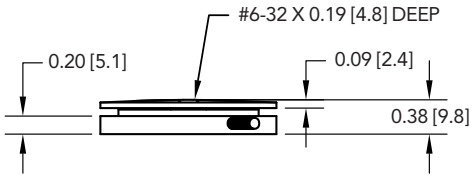
Active end

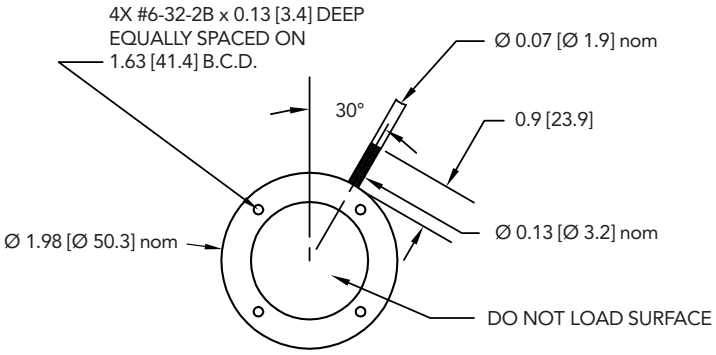
+ Output (compression)



SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.2% of RO
Hysteresis	±0.2% of RO
Nonrepeatability	±0.2% of RO
Off Center Loading	±3-4% or better @ 0.625 in [15.9 mm] from center
ELECTRICAL	
Rated Output (RO)	2 mV/V nom
Excitation (VDC or VAC)	20 max
Bridge Resistance	700 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#29 AWG, 4 conductor, spiral shielded Teflon cable 12 in [0.3 m] long with 4 pin LEMO receptacle (PHG.0B.304.CLLD)
Wiring Code	CC4
MECHANICAL	
Weight	6 oz (170 g)
Safe Overload	150% of RO
Material	17-4 PH stainless-steel
IP Rating	IP64
TEMPERATURE	
Operating Temperature	-60 to 200°F [-50 to 93°C]
Compensated Temperature	60 to 160°F [15 to 72°C]
Temperature Shift Zero	±0.01% of RO/°F [0.018% of RO/°C]
Temperature Shift Span	±0.01% of Load/°F [0.018% of Load/°C]
CALIBRATION	
Calibration Test Excitation	10 VDC
Calibration (standard)	5-pt compression
Shunt Calibration Value	100 kOhm

DIMENSIONS inches [mm]



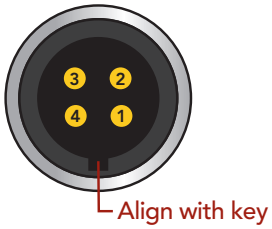


CAPACITIES

ITEM #	lb	N	Deflection (in)	Natural Frequency (Hz)
FSH04404	100	445	0.002	1800
FSH04405	300	1334	0.005	2300

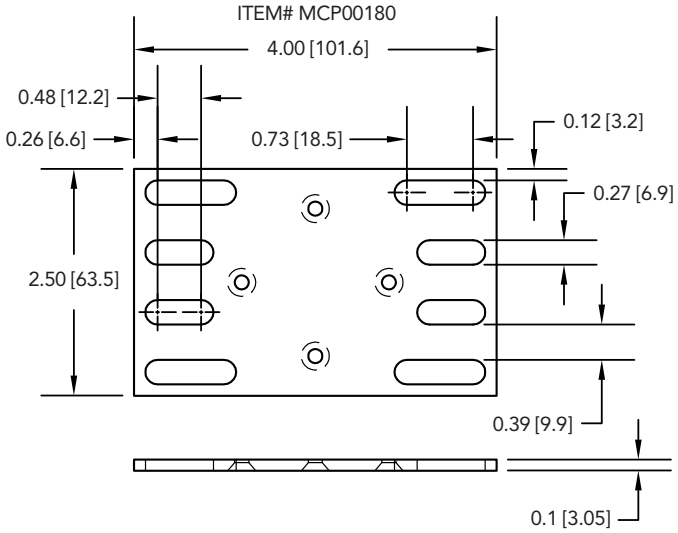
LEMO 4-PIN (CC4)

PIN	COLOR	DESCRIPTION
1	Red	+ Excitation
2	Green	+ Signal
3	White	– Signal
4	Black	– Excitation

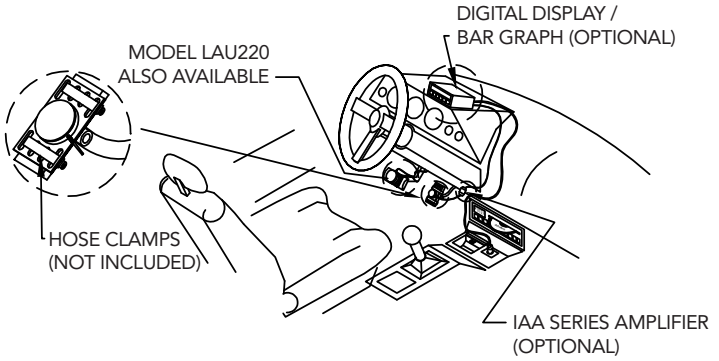


Sensor Receptacle View

MOUNTING PLATE (ALUMINUM, RED ANODIZED)



TYPICAL APPLICATION



Model LAU200 includes (one of each)
Total Weight 2 lb [0.9 kg]

- Mounting Plate Item# MCP002180
- 100 kohm shunt cal.
- Carrying case and
- Item#FSH01790 (mating connector and 15 ft cable)

Drawing Number: FI1482

FUTEK reserves the right to modify its design and specifications without notice.
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