

Low Profile Brake Pedal Force Transducer

Model BPFT2

- 500 lbf (2.2 kN) capacity
- High accuracy for on and off center loading
- Fits standard brake pedals
- Rugged construction
- Can be used to quickly verify brake loads when paired with Michigan Scientific's Transducer Display Module (TDM)



Description

Michigan Scientific's *Low Profile Brake Pedal Force Transducer 2 (BPFT2)* is a precision strain gauge load cell. It attaches directly onto a vehicle's brake pedal quickly and securely by removing the rubber pad and tightening the single retaining bolt. Designed to accommodate the brake pedal of most cars, the low profile and size closely duplicates the shape and feel of a production brake pedal, while adding minimal height and weight. It features high accuracy for both on-center and off-center loading.

Specifications

Maximum Load Capacity	500 lbf (2.2 kN)
Full Scale Load	500 lbf (2.2 kN)
Full Scale Output	2.75 mV/V, nominal
Sensor	1 Four-arm strain gauge bridges
Nonlinearity	0.5 % of full scale output
Hysteresis	0.1 % of full scale output
Bridge Resistance	350 Ω nominal
Temperature Effect on Zero	0.008 % reading/ $^{\circ}$ F (0.0015 % reading/ $^{\circ}$ C)
Temperature Range, Useable	-40 $^{\circ}$ F to 300 $^{\circ}$ F (-40 $^{\circ}$ C to 149 $^{\circ}$ C)
Excitation Voltage, Maximum	10 Vdc or Vac rms
Insulation Resistance, Bridge/Case	Exceeds 5,000 M Ω
Standard Cable Length	10 ft (3.05 m)
Weight	12.4 oz (350 g)

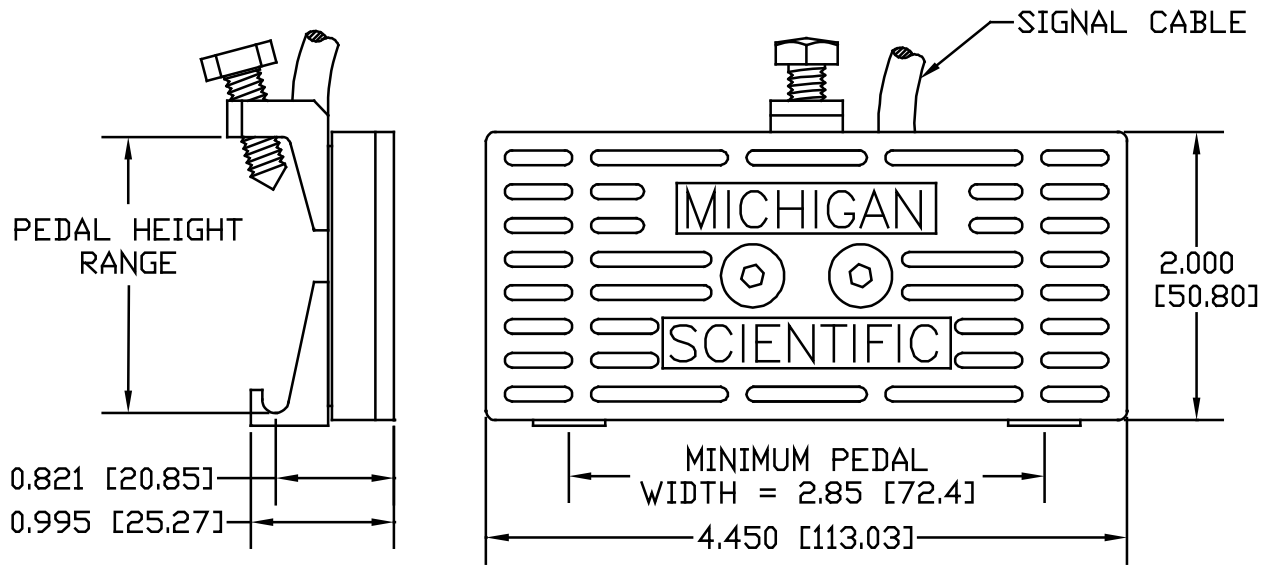
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BPFT2 Configuration



CLAMP SET	MAX PEDAL HEIGHT*	MIN PEDAL HEIGHT*
STANDARD**	2.0 [50.8]	1.5 [38.1]
EXTENDED	3.0 [76.2]	2.0 [50.8]

*BPFT2 is mounted onto pedal frame with rubber pad removed.
Clamping range is referenced to the height of this frame only.
**Units are shipped with standard clamp set unless requested otherwise.
Clamp sets can be easily changed by the customer.
Dimensions are in inches [mm].

Contact factory for more options on clamping width range.

C566045A
BPFT2
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