

FN2114 Pedal Load Cell



- S- Beam Load Cell
- 50 to 100,000 N (10 to 20,000 lbf)
- Stainless Steel or Aluminum
- Cable Gland or Connector Output
- Built In Amplifier per Request

DESCRIPTION

The FN2114 load cell has been developed for pedal load testing. Its small size allows the sensor to be easily installed on the pedals of any vehicle or a fatigue/endurance test bench.

Since the forces to be investigated on the brake, clutch or accelerometer pedals are different, and vary from a small car to a heavy goods vehicle, Measurement-Specialties offers different measurement ranges from 200 N up to 2500 N.

With an internal mechanical decoupling system, accuracy is 1% F.S., regardless of the point of application of force. On-board amplification for high level output is optionally available for all ranges.

With many years of experience as a designer and manufacturer of sensors, Measurement Specialties, Inc. often works with customers to design or customize sensors for specific uses and testing environments.

To meet your needs we also offer complete turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.

FEATURES

- Compression measurements
- High accuracy regardless of point of application of force
- Compact and rugged design
- Optional high level output

APPLICATIONS (NOT FN2114)

- FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
- FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
- FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
- Robotics and effectors
- Laboratory and Research

FN2114 Pedal Load Cell

PERFORMANCE SPECIFICATIONS

Ambient Temperature: 20±1 °C (unless otherwise specified)

PARAMETERS

Operating Temperature Range (OTR)	-20 to 80°C (-4 to 176°F)
Compensated Temperature Range (CTR)	0 to 60°C (32 to 140°F)
Range (F.S.)	200, 500, 1000, 2500N
Over-Range	
Safe Overload	1.5 x F.S.
Accuracy	
Combined Non-Linearity & Hysteresis	±<1%F.S

Electrical Characteristics

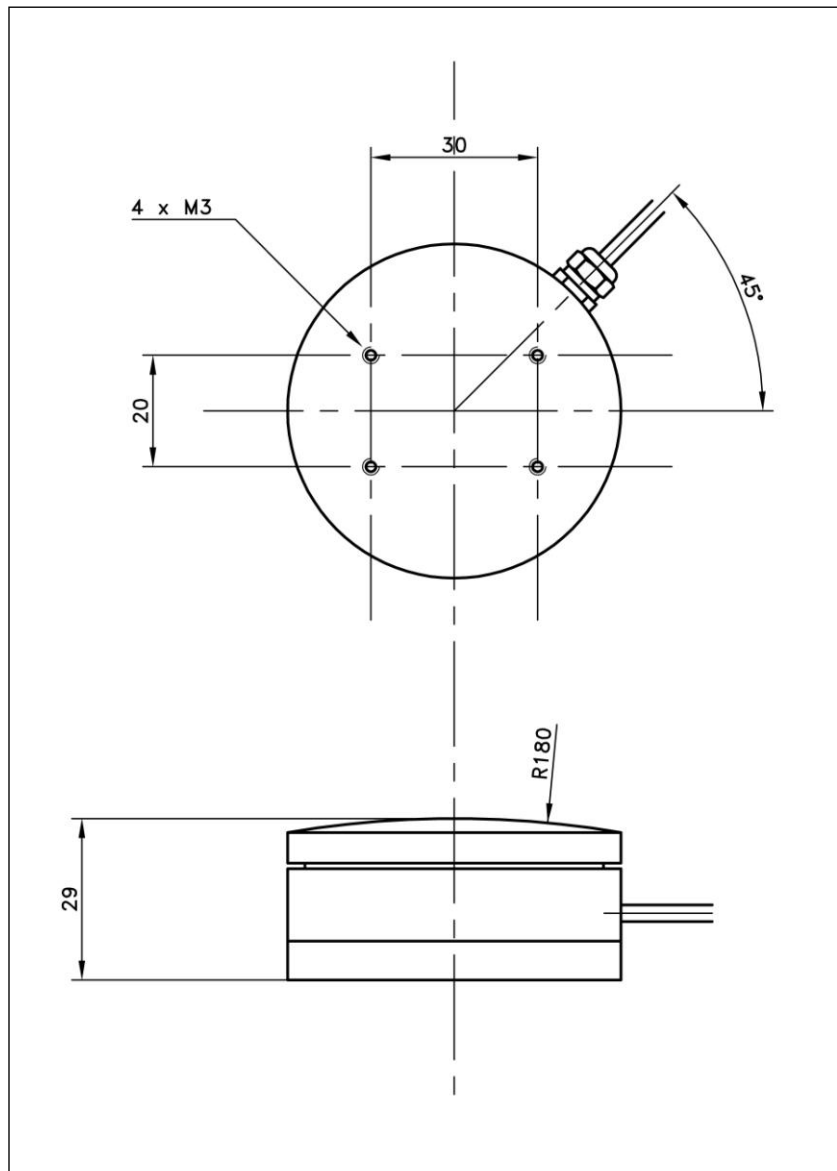
Model	FN2114
Supply Outage	10 to 30Vdc/±15Vdc
F.S. Output	1.5mV/V
F.S. Output (Optional High Level Output)	0.5 to 4.5V/ ±5V
Supply Voltage (Optional High Level Output)	10 to 30 Vdc/±15Vdc

Notes

1. Electrical Termination: 2m Shielded Cable
2. Material: Body Aluminum alloy
3. Protection Index: IP50 (other levels available on request)

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DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)




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OPTIONS

High Level Output

ORDERING INFO

FN2114

 Model

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