The FN2114 series pedal load cell’s size allows the sensor to be easily installed on the pedals of any vehicle or a fatigue/endurance test bench.

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

Force Load Cell Sensor Type: Automotive Load Cells

Full Scale Range: 40 - 500 lbf

Operating Temperature Range: -20 - 80 °C

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, we offer different measurement ranges as standard.

With an internal mechanical decoupling system, accuracy is 1% F.S., regardless of the point of force application. Integrated amplifier for high level output is optionally available for all ranges. A similar pedal load cells with thicker dimension exists as model FN2570. With many years of experience as a designer and manufacturer of sensors, we often work with customers to design or customize sensors for specific uses and testing environments. On request, instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

Benefits

- Ranges 200 to 2500 N (40 to 500 Lbf)
- Aluminum body
- Cable Gland Output
- Accuracy 1% regardless force application point
- Compression only
- Integrated amplifier optional
- Rugged design
Applications

- On-board vehicle equipment
- Test bench equipment
- Laboratory and research

Other Auto Safety Sensors

Features

**Product Type Features**

<table>
<thead>
<tr>
<th>Force Load Cell Sensor Type</th>
<th>Automotive Load Cells</th>
</tr>
</thead>
</table>

**Electrical Characteristics**

<table>
<thead>
<tr>
<th>Full Scale Range (Newton)</th>
<th>200 - 2500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Scale Range (lbf)</td>
<td>40 - 500</td>
</tr>
<tr>
<td>Force Load Cell Supply Voltage (VDC)</td>
<td>10, 10 - 30, ±15</td>
</tr>
</tbody>
</table>

**Signal Characteristics**

<table>
<thead>
<tr>
<th>Output Signal</th>
<th>±2 mV/V, ±2 V, ±5 V, ±5 V</th>
</tr>
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</table>

**Usage Conditions**

<table>
<thead>
<tr>
<th>Operating Temperature Range (°C)</th>
<th>-20 - 80</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature Range (°F)</td>
<td>-4 - 176</td>
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</table>

**Other**

<table>
<thead>
<tr>
<th>Force Direction</th>
<th>Compression</th>
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</thead>
<tbody>
<tr>
<td>Protection Index</td>
<td>IP50</td>
</tr>
<tr>
<td>Force Load Cell Accuracy (% of FS)</td>
<td>±1</td>
</tr>
</tbody>
</table>

**Related Materials**

**Specification Or Standard**

INSTRUCTIONS FOR THE USE OF STRAIN-GAUGE SENSORS

English
Data Sheet
FN2114
English

Specification Or Standard
INSTRUCTIONS FOR THE USE OF STRAIN-GAUGE SENSORS (FRENCH)
French

Also in the Series | MEAS FN2114