

Pre-Installation Sealing Sensor Testing Load Cell

Industry: Automotive and Vehicle

Summary

Customer Challenge

An automotive manufacturer needs a force testing system for their door and window seals. Their seals have an integrated anti-pinch electrical system that activates depending on the forces applied to the seals (in case of someone's finger or head getting caught). They need a system that will be able to measure and display the forces applied in real time.

Interface Solution

Interface's solution is to install a 1101 Compression-Only Ultra Precision LowProfile™ Load Cell to the customer's test stand. When connected to the INF-USB3 Universal Serial Bus Single Channel PC Interface Module, the forces applied will be displayed and logged onto the customer's PC computer or laptop.

Results

The automotive manufacturer was able to successfully determine the force measurements that activated their doors, windows, and sunroofs anti-pinch system.

Materials

- 1101 Compression-Only Ultra Precision LowProfile™ Load Cell
- INF-USB3 Universal Serial Bus Single Channel PC Interface Module with supplied software
- Customer PC or Laptop

How It Works

1. The 1101 Compression-Only Ultra Precision LowProfile™ Load Cell is attached to the customer's actuator testing frame.
2. Forces are applied to the door and window seals. The anti-pinch safety system is activated.
3. These forces that are applied are then measured and logged, using the INF-USB3 Universal Serial Bus Single Channel PC Interface Module.
4. When connected to the customer's PC or laptop, data can be displayed, logged, and recorded using the INF-USB3 supplied software.

