

# Pre-Installation Sealing Sensor Testing Load Cell

Industry: Automotive and Vehicle

## Summary

### Customer Need / 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.

