

Automotive Window Pinch Force Testing Interface Mini™

Industry: Automotive and Vehicle

Summary

Customer Need / Challenge

An automotive manufacturer needs a force testing system for their vehicle power windows. They want to prevent any injuries or other safety concerns by testing the strength of pinch force of their power windows.

Interface Solution

Interface's SML Low Height S-Type Load Cell can be placed in between the power window and the door frame. Two plates are attached to the top and bottom of the SML with LB Load Buttons. As the power window pinches the SML load cell, force results are sent and displayed using the 9870 High-Speed High Performance TEDS ready Indicator.

Results

The automotive manufacturer was able to successfully determine the force strength of their power windows.

How It Works

1. The SML Low Height S-Type Load Cell is placed between the power window and the top of the door frame. Two plates are attached to the top and bottom of the SML with LB Load Buttons.
2. The load cell is pinched with the power window, and the force data is collected by the 9870 High-Speed High Performance TEDS Ready Indicator.
3. The 9870 High-Speed High Performance TEDS Ready Indicator is able to clarify the amount of force it took for the anti-pinch system to activate.

Materials

- SML Low Height S-Type Load Cell
- LB Load Buttons
- 9870 High-Speed High Performance TEDS Ready Indicator

