Pedal- Force and Distance

Interface Mini™

Industry: Automotive and Vehicle

Summary

Customer Challenge

Customer needs to measure pedal force in relationship to distance the pedal is pushing during automobile testing.

Interface Solution

As pedal is pushed, force is measured by BPL Pedal Load Cell and distance is measured by LVDT. Results are shown graphically and on a display while the data is being logged to a CSV file by model SI-USB4

Results

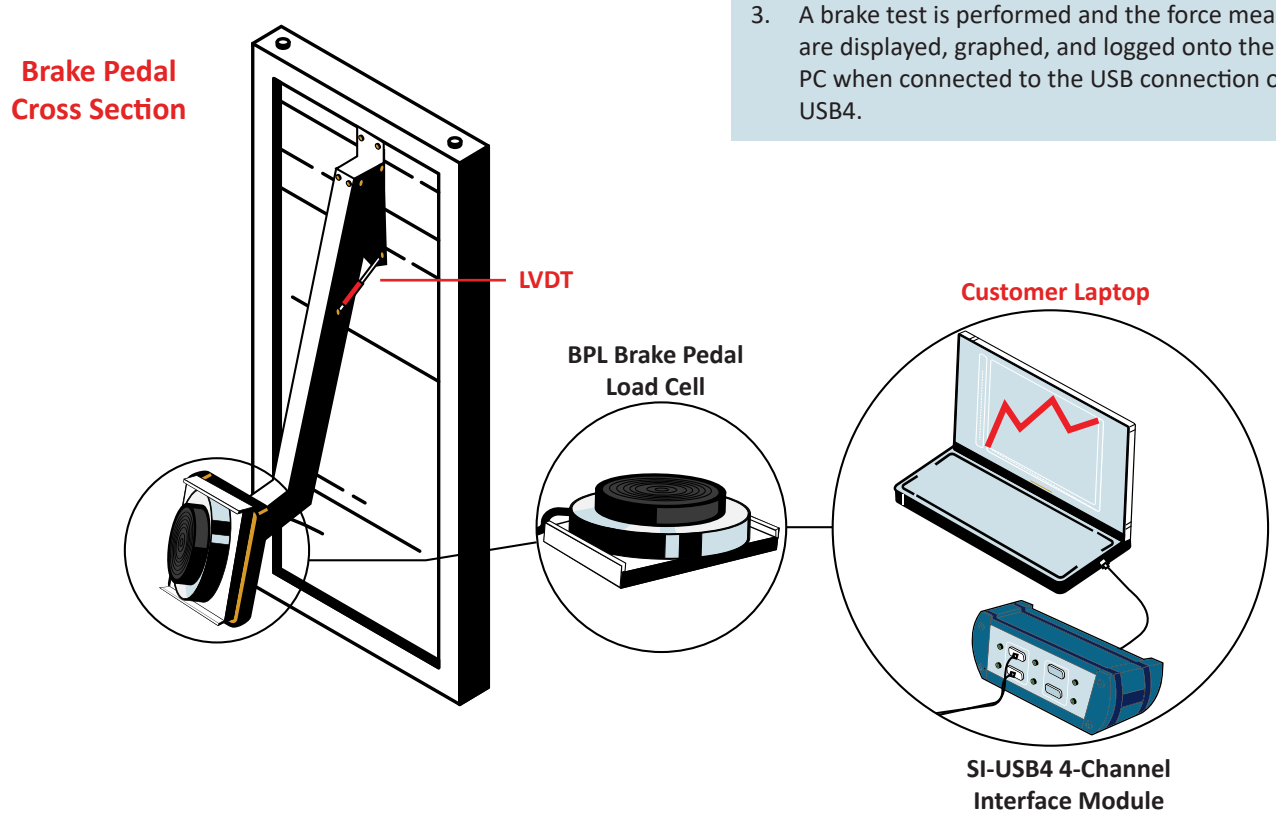
Customer objective has been achieved. When pedal test was executed, the force measurement and distance measurement were simultaneously displayed, graphed and logged for examination in their lab.

Materials

- BPL Brake Pedal Load Cell
- LVDT sensor
- SI-USB4 4-Channel USB Interface Module
- Customer PC or laptop

How It Works

1. The BPL Brake Pedal Load Cell securely mounted on the top of the brake pedal, and the customer's LDVT is installed on the back of the braking assembly.
2. Both the BPL and LDVT is connected to the SI-USB4 4-Channel USB Interface Module.
3. A brake test is performed and the force measurements are displayed, graphed, and logged onto the customer's PC when connected to the USB connection of the SI-USB4.



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