

Bolt Fastening-Force Load Washer

Industry: Industrial Automation, Test and Measurement

Summary

Customer Challenge

Over-tightening bolts during installation can cause damage to the objects being installed.

Interface Solution

Using Interface's LWCF Clamping Force Load Cell along with Interface's INF-USB3 Universal Serial Bus Single Channel PC Interface Module can provide a solution that monitors the force being applied during bolt tightening.

Results

Bolts are tightened to the correct force targets and objects are installed undamaged.

Materials

- LWCF Clamping Force Load Cell
- INF-USB3 Universal Serial Bus Single Channel PC Interface Module with supplied logging and graphing software
- Customer supplied bolt and nut

How It Works

1. The LWCF Clamping Force Load Cell is installed between the bolt head and nut. The load cell will measure the load as torque is applied to the nut.
2. Using the INF-USB3 Universal Serial Bus Single Channel PC Interface Module, force readings from the load cell will be displayed, logged, and graphed directly into the PC.

