

Snack Weighing and Packaging Machine Interface Mini™

Industry: Test and Measurement

Summary

Customer Challenge

A snack manufacturing brand wants to weigh the amount of their snacks that is automatically dispersed into the bags during the packaging process. In this case, they want to weigh their potato chips being packaged. The company wants to ensure the potato chips are at the exact weight needed due to regulatory standards.

Interface Solution

Interface's solution is to use multiple SPI Platform Scale Load Cells, and install it to the potato multi-head weigher and packaging machine. The SPI Platform Scale Load cells are installed inside of the mount that attaches the head weigher to the packaging machine. Force results from the potato chips are read by the load cells and sent to the ISG Isolated DIN Rail Mount Signal Conditioner, where the customer is able to control the automated production from their command center.

Results

The customer was able to determine the weight of the potato chips being distributed into their bags with highly accurate results. They also were able to control the automated production process with the provided instrumentation. They will use this same weighing method for other snacks that need to be packaged.

Materials

- Multiple SPI Platform Scale Load Cells
- ISG Isolated DIN Rail Mount Signal Conditioner

How It Works

1. Multiple SPI Platform Scale Load Cells are installed onto the insides of the head weighers of the packaging machines.
2. When potato chips are dispensed into the heads, the SPI Platform Scale Load Cells will measure the force applied to the head weighers, then the potato chips will be released and dispensed into the bag packaging process.
3. The force measurements can be read using the ISG Isolated DIN Rail Mount Signal Conditioner, where the customer is able to control the automatic production controls when connected to their command center.

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