

Drone Parcel Delivery

Interface Mini™

Industry: Industrial Automation

Summary

Customer Challenge

Rapid delivery of packages has now migrated to the use of “Delivery Drones”. The Customer needs to weigh the payload of the package being delivered while the propeller motors compensate for weight shifting or uneven weight distribution of the package to lift and fly the package to its destination.

Interface Solution

Four Interface WMC Sealed Stainless Steel Miniature Load Cells are used to measure the weight of the payload and detect weight shifting or uneven weight distribution of the package which would signal the necessary propeller

Results

The four WMC load cells accurately measured the payload weight and maintained stability of the propeller motors to safely deliver the parcel. This information, was communicated to the drones on-board processor for monitoring and recording this information during flight.

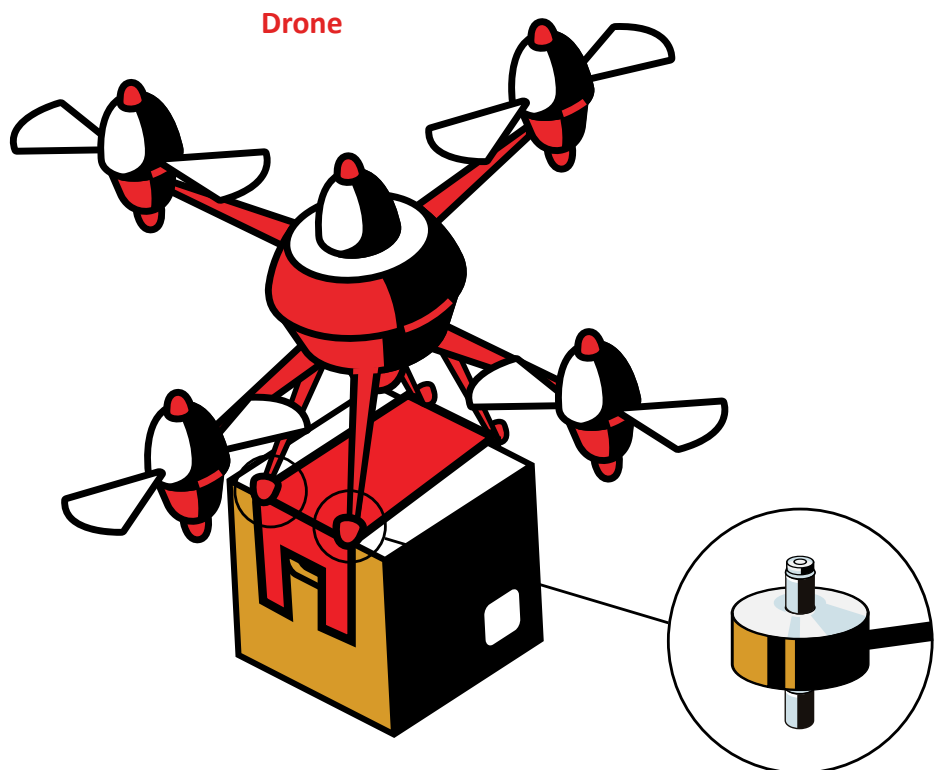
Materials

Interface Solution

- Four Interface WMC Sealed Stainless Steel Miniature Load Cells

How It Works

The four WMC Sealed Stainless Steel Miniature Load Cells are connected independently to each of the four landing gear legs. Once connected to the drone’s processor, weight of payload is immediately communicated and stored, as well as detecting uneven weight distribution communicating with the individual propeller motors to increase the RPM’s and balance the weight.



WMC Sealed Stainless Steel Miniature Load Cells