



Battery-less smart home monitoring
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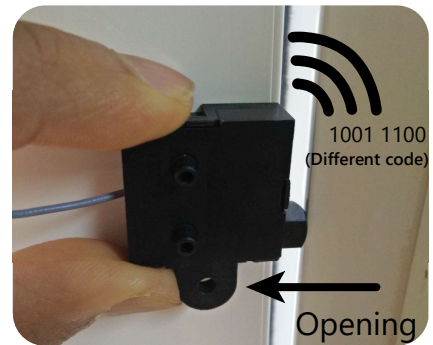
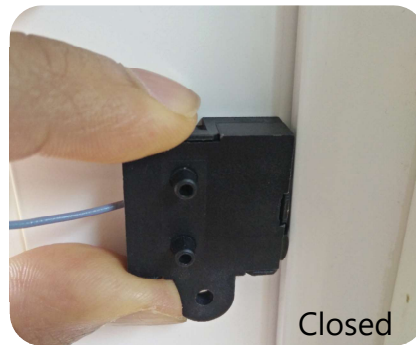
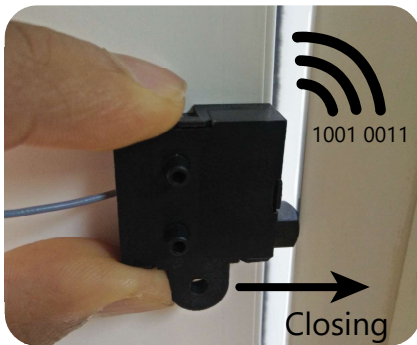
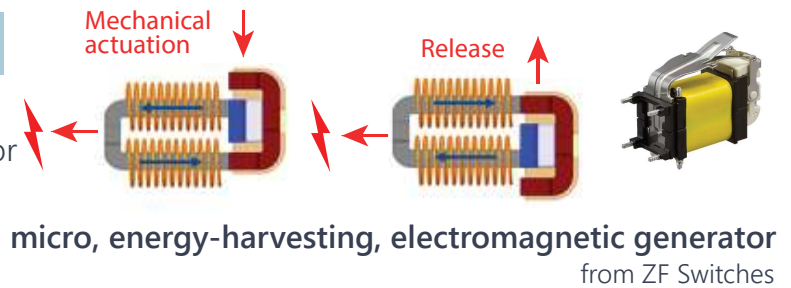


Problem

15 Billion batteries end up in landfill every year. **Batteries** from current **smart home sensors**, like the door and window security sensors (left), make a reasonable chunk of this waste. In addition to the obvious environmental impact, **changing batteries** on sensors is a **hassle** and users often skip.

Solution

Airy presents **battery-less** door and window sensors for home monitoring application. Our compact sensor features a **micro-generator** that generates electrical energy from the mechanical impact produced in the normal operation of a door or window.



A ZF micro-generator powering a custom RF transmitter packaged as the Airy Sensor (black) shown here monitoring a swing door operation. When the door is opened or closed, the sensor sends a unique code (*without needing any battery*) to our WiFi hub, which relays it to the user through an App.

What sets Airy and Our Team apart

- Can be installed to monitor **doors, windows, cabinets** and **drawers** (install and forget - no maintenance)
- 400 ft** transmission range (good for a 2500 sq ft multi-floor townhome)
- Works with the **Hook Smart Home Hub** (EIC 2nd Place 2015, now on Amazon.com)
- Priced competitively** (BOM is <\$10 - we obtained a quote from ZF for 5k units shipped to Shenzhen)
- Team** has prior **product development experience** in the same space