



Falcon WiNG Sensors Digital Input

RLE has revolutionized the wireless sensor market with the launch of the WiNG wireless platform. A complete system of sensors, gateway manager, and range extenders monitors your facility for changes in temperature and humidity and allows you to fine tune your environment to meet energy efficiency goals, maintain optimal equipment performance parameters, and ensure your facility's operating as expected.

The WiNG digital input sensor accepts one digital dry contact input. The WiNG-DI sensor allows you to take a wired digital input and convert it to a wireless signal that can be implemented into a WiNG-MGR monitoring system.

WiNG sensors are compact and unobtrusive, yet provide an industry leading battery life - sensor batteries will last up to 12 years at room temperatures. WiNG sensors maintain this extended battery life while communicating readings to the WiNG-MGR web interface every 10-20 seconds; we knew it was important to our customers that we didn't sacrifice data responsiveness in order to extend our battery life.

The WiNG system has an unprecedented transmission range between sensors and manager: up to 100 feet through multiple walls, up to 270 feet through one wall, and up to 600 feet indoor, direct line of sight. While this range is more than ample for most situations, sometimes applications require signals to be pushed through more complex physical or noisy RF environments. The WiNG-RXT range extender can be implemented in these situations to add up to 1,000 feet direct line of sight transmission distance to the application.

Features

- Proprietary wireless design
- Accepts one digital dry contact input, configurable as normally open or normally closed
- Available as an 868MHz or 900MHz sensor
- A transmission range between manager and sensors that is second to none:
 - Up to 100 feet (30.5m) through multiple walls
 - Up to 270 feet (82.3m) through one wall
 - Up to 600 feet (183m) direct line of sight
 - Add up to 1,000 feet (305m) direct line of sight with each range extender
- Unparalleled sensor battery life:
 - Up to 5 years across full operating range: -13°F to 185°F (-25°C to 85°C)
 - Up to 8 years at temperatures up to 122°F (50°C)
 - Up to 12 year battery life at room temperature
- Polling rate of 10-20 seconds

Monitoring & Notification

WiNG-DI Sensor Specifications

Power	3.6V AA lithium battery
Battery Life	Up to 5 years when system spans full operating temperature range. Up to 8 years at room temperatures up to 122°F (50°C) Up to 12 years at room temperature
Shelf Life	10 years in quiescent mode with battery installed
Transmission Interval Frequency Range	10-20 seconds (random) Available in 868MHz and 900MHz configurations Up to 600ft line of sight
Digital Input	One dry contact input configurable as NO or NC
Operating Environment Temperature Humidity Altitude	-13°F to 185°F (-25°C - 85°C) 0% to 90% RH (Non-condensing) -200 ft to 15,000 ft (-70m to 4572m) max.
Mounting	Free standing, zip ties, screw and keyhole - spaced 2.5" (6.4cm), junction box - 2 screws spaced 3.28" (8.3cm)
Dimensions and Weight	4.4"L x 2.5"W x 1.5"H (11.2cmL x 6.4cmW x 3.8cmH), 0.2lb (0.10kg)
Certifications and Standards	CE UL61010, CSA 22.2 #61010, IEC 61326-1, FCC 47CFR 15B, IC ICES-003, EN 61000-3-2, EN61000-3-3, ETSI EN 301 489-1, ETSI EN 301 489-3; FCC ID: X7J-A11072401; IC: 8975A-A11072401

