

Cloudleaf Sensor™

Model S3.3 (Relay Digital Sensor)

The Relay/Contact Digital Sensor is an industrial grade sensor that allows high precision sensors to connect to existing machines with relays/contacts.











A sophisticated, lightweight, battery-operated device, the Model S3.3 (Relay Digital Sensor) is part of the full stack Cloudleaf Sensor Fabric™—providing asset location and sensory data, while collecting (end-node) information, such as environmental conditions in real-time.

Utilizing proven wireless technology standard (BLE) to communicate between zone sensors and gateways, all security features in the Bluetooth specifications can be enabled, including native 128-bit AES encryptions for end-to-end communications.

Each sensor carries a unique ID that links the tracked material. During the setup process, additional asset data like serial number, name or category can be assigned. Sensors can be provisioned in bulk via a .csv file upload and or individually using a mobile app.

Sensors can be mounted onto assets in a variety of ways to track them across indoor, outdoor and in-transit environments, providing a range of applications.

Features

<p>Long Range</p>  <p>Up to 150 Ft. omni-directional line-of-sight (LOS) range</p>	<p>Configurable Sampling</p>  <p>Event or time based sampling and data transport</p>	<p>External Inputs</p>  <p>Two Relay/contact discrete inputs from external control systems</p>	<p>Read Only</p>  <p>Read-only module included</p>	<p>Easily Portable</p>  <p>All wireless and self-powered</p>
<p>Industrial Interfaces</p>  <p>Interfaces to thousands of industrial external sensors</p>	<p>Easy Deployment</p>  <p>Enables quick deployment without complex engineering or integration</p>	<p>Location Tracking</p>  <p>Location tracking along with external sensor data measurement</p>	<p>Bidirectional Communication</p>  <p>Supports bidirectional communication and over-the-air (OTA) configuration and update</p>	<p>Easy Provisioning</p>  <p>Quick mobile and/or bulk provisioning</p>

Specifications

- Dimensions: 53mm x 105mm x 22 mm
- Operating Temperature: -10 to 55°C
- Tracking capabilities: location, seismic, temperature, carbon monoxide/dioxide, rel. humidity, fluid dynamics, G-force measurements, etc.
- 2 year battery life
- 12 bit data sampling
- IP-52 compliant
- Two Relay/Contacts (0-3.3V "Off" 3.3V – 30V "On") Discrete DC Voltage Sensing inputs
- Operating Humidity: 0 to 95% RH
- Security: AES-128 CCM and HASH Lite encryption