



Strips Multi-sensor +Guard for LoRaWAN

Meet the ultra-slim LoRaWAN magnetic contact sensor for monitoring windows, doors, and valuables

The **invisible window & door sensor** with up to **10 km range & 10 years** of battery life.

High quality for both **in & outdoor** applications, it is the ideal sensor for any professional IoT application. Strips MS +Guard is a multi-sensor that can also be used for temperature measurements.

- **Open/close detection**
- **Magnetic contact sensor**
- **Indoor or outdoor use**
- **Ultra-thin (3mm/0.12in) design**
- **Up to 10-year battery lifetime**
- **Up to 10 km (6 miles) range**
- **Easy installation**



DESCRIPTION

STRIPS GUARD LoRaWAN

Strips Guard is an ultra-thin (<3 mm) magnetic sensor designed for reliable monitoring of doors, windows, gates, and access points. Its unique form factor enables fully hidden installation inside frames or other narrow spaces—without impacting aesthetics or functionality.

With a battery life of 10+ years – designed for long-term, maintenance-free operation, and long-range LoRaWAN connectivity (up to 10 km), it is ideal for scalable security, energy optimization, and smart building deployments.

The sensor is designed for reliable operation in varying conditions, featuring conformal coating of the electronics, enabling use in humid environments and exposed installations.

In addition to open/close detection, Strips Guard also measures temperature, providing additional environmental insight.

Typical use cases

- Door and window monitoring
- Intrusion detection and alarm systems
- Energy optimization (e.g. HVAC control based on window status)
- Smart building automation
- Monitoring of cabinets, drawers, and restricted access points

Key advantages

- Discreet design – ultra-thin (<3 mm), fully hidden installation
- Reliable detection – accurate magnetic sensing of open/close status
- 10+ years battery life – designed for long-term, maintenance-free operation
- Long-range communication – LoRaWAN up to 10 km
- Moisture-resistant design – conformal coating for reliable performance
- Multi-function sensor – includes temperature measurement
- Easy installation – no wiring required

Advanced functionality

Strips Guard can be configured to act as a beacon when open, enabling advanced use cases in environments where radio communication is limited—such as installations with metal doors or window frames.

For example, in hotel rooms with metal structures, the sensor can be set to transmit only when a door or window is open. This enables automatic control of air conditioning, ensuring energy is not wasted when ventilation conditions change.

IMAGE GALLERY



SPECIFICATION

Application

Application Security, Room sensor, Window and door monitoring

Benefits

Benefits Blend-in design, No maintenance (10 years), Long-range (10 km), Simple installation & mounting, Low-lifecycle cost (multi-purpose multi-sensor)

In/Outdoor usage Indoor & Outdoor

Features

Sensor Open/Close, Temperature

Functionality Tamper alert

Firmware update over the air (FOTA) No

Connectivity data

Frequency EU868 - Europe 863-870 MHz or AS923 - Asia 915 - 928 MHz or US915 - US 902 - 928 MHz or AU915 - Australia 915 - 928 MHz or JP920 - Japan or IN865 - India

Protocols / Connectivity LoRaWAN

LoRaWAN version V 1.0.4

LoRaWAN class Class A

Antenna Integrated

Sensor data

Temperature accuracy $\pm 1\text{ }^{\circ}\text{C}/ 1.8\text{ }^{\circ}\text{F}$ @ 0-30 $^{\circ}\text{C}/32\text{-}86^{\circ}\text{F}$

Sensor type Magnetic contact

Power supply

Powered by Battery, Built-in battery (LiMnO2), 1,4 Wh (480 mA @ 3V), Non rechargeable battery

Operating Conditions

Operating temperature (max) +60 $^{\circ}\text{C}$

Operating temperature (min) -20 $^{\circ}\text{C}$

IP Class 67, 67

Mechanical data

Weight (g) 11

Width (mm) 15

Height (mm) 3

More information

Manual URL <https://public.yggio.net/docs/lorawan-sensors/strips-multi-sensor#strips-ms-guard>

Battery calculator <https://sensative.com/sensors/strips-lora-sensors/sensative-strips-lora-battery-calculator/>

Payload decoder <https://sensative.com/sensors/strips-lora-sensors/sensative-strips-lora-ms-resource-center/>

PATENTED

Sensitive Strips are protected by one or more of the following patents:

Elongated wireless sensor assembly

Sweden: SE 537 509

Europe: 3053152

EP 3 670 811 B1

USA: 9,953,496

USA: 10,720,033

USA; 11,170,617

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