



## NB-IoT

# Wireless open / close logger

The Efento NB-IoT wireless data logger is designed for continuous monitoring of open/close status, ensuring reliable data transmission. Using Narrowband IoT connectivity, it communicates directly over the cellular network. No gateways or additional infrastructure required.



## Key Features

- **Effortless installation** - thanks to built-in NB-IoT connectivity, installation is as simple as mounting the device on a wall or placing it on a shelf - no gateways, cabling, or Wi-Fi configuration required.
- **Fast and intuitive setup** - with an integrated Bluetooth Low Energy (BLE) module and a dedicated mobile app, the sensor can be configured and activated in under 15 minutes.
- **Up to 8 years of battery life** - engineered for long-term, maintenance-free operation, the device uses intelligent data handling and optimized transmissions to achieve up to 8 years of operation on a single battery.
- **Cloud and system integration** - seamlessly connects with the Efento Cloud platform for data visualization, analysis, and alerting. Standard communication protocols also enable easy integration with custom server-based systems.
- **Remote management** - supports over-the-air firmware updates and secure remote configuration, reducing the need for on-site maintenance.
- **Continuous status monitoring** - the device continuously tracks the open/close state and automatically records each event.

## Applications

The device is designed to detect changes in the state of moving elements by sensing position changes (reed switch) or variations in an electrical signal at a wired input. Depending on the configuration, it can operate as a proximity sensor or as an interface for external systems. It is suitable for use in building automation systems (BMS), industrial installations, alarm systems, access control, and monitoring of devices and rooms.

## Technical data

### Data logging

|                      |                                    |
|----------------------|------------------------------------|
| Memory size          | 100 000 measurements               |
| Measurement interval | 5 s - 18 hours (user-configurable) |

### Bluetooth interface

|                        |                            |
|------------------------|----------------------------|
| Radio module frequency | 2.4 GHz                    |
| Power                  | 2.5 mW (4 dBm)             |
| Range                  | Up to 100 m (LOS)          |
| Transmission period    | 1 s                        |
| Bluetooth version      | Bluetooth Low Energy (4.0) |

### NB-IoT interface

|              |                                                              |
|--------------|--------------------------------------------------------------|
| NB-IoT bands | 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 28, 66, 70, 85 |
| 3GPP         | 13 i 14 (LTE Cat NB2)                                        |
| Power        | 23 dBm $\pm$ 2 dB                                            |

### Communication

|                       |                                    |
|-----------------------|------------------------------------|
| Protocol              | CoAP                               |
| Transmission interval | 1 min - 7 days (user-configurable) |

### Operating and Storage Conditions

|                                                           |                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------|
| Main unit operating conditions                            | Temperature: -25°C to +70°C, humidity: 0-99% RH (non-condensing) |
| Storage conditions                                        | Temperature: -25°C to +70°C                                      |
| Charging conditions (variants with external power supply) | Temperature: 0°C to +45°C                                        |

### Certifications

|               |               |
|---------------|---------------|
| Regulatory    | CE (RED), FCC |
| Environmental | RoHS          |

| Sensors                                                                  | EAN           | Power Supply                                                                                    | Enclosure                                                     | Weight                   | Contact opening / closing distance |
|--------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------|------------------------------------|
| Plastic reed switch, 36 cm long                                          | 5905309603783 | 8,500 mAh battery (replaceable). Battery life up to 8 years                                     | IP30, white ABS plastic<br>Dimensions: 32.5 × 60 × 125 mm     | 160g (including battery) | 28 / 18 mm                         |
|                                                                          | 5905309604155 | USB-C, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss | IP30, white ABS plastic<br>Dimensions: 32.5 × 60 × 125 mm     | 145g                     |                                    |
|                                                                          | 5905309604780 | 8,500 mAh battery (replaceable). Battery life up to 8 years                                     | IP65, white ABS plastic<br>Dimensions: 39.5 × 63.5 × 128.5 mm | 215g (including battery) |                                    |
|                                                                          | 5905309605329 | 9-26V, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss | IP65, white ABS plastic<br>Dimensions: 39.5 × 63.5 × 128.5 mm | 200g                     |                                    |
| Metal reed switch, 60 cm long (Satel B-3A)                               | 5905309603790 | 8,500 mAh battery (replaceable). Battery life up to 8 years                                     | IP30, white ABS plastic<br>Dimensions: 32.5 × 60 × 125 mm     | 225g (including battery) | 44 / 37 mm                         |
|                                                                          | 5905309604162 | USB-C, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss | IP30, white ABS plastic<br>Dimensions: 32.5 × 60 × 125 mm     | 210g                     |                                    |
|                                                                          | 5905309604872 | 8,500 mAh battery (replaceable). Battery life up to 8 years                                     | IP65, white ABS plastic<br>Dimensions: 39.5 × 63.5 × 128.5 mm | 280g (including battery) |                                    |
|                                                                          | 5905309605336 | 9-26V, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss | IP65, white ABS plastic<br>Dimensions: 39.5 × 63.5 × 128.5 mm | 265g                     |                                    |
| Without reed switch – the device is supplied with a 17 cm two-wire cable | 5905309603820 | 8,500 mAh battery (replaceable). Battery life up to 8 years                                     | IP30, white ABS plastic<br>Dimensions: 32.5 × 60 × 125 mm     | 150g (including battery) | Not applicable                     |
|                                                                          | 5905309604056 | USB-C, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss | IP30, white ABS plastic<br>Dimensions: 32.5 × 60 × 125 mm     | 135g                     |                                    |
|                                                                          | 5905309604896 | 8,500 mAh battery (replaceable). Battery life up to 8 years                                     | IP65, white ABS plastic<br>Dimensions: 39.5 × 63.5 × 128.5 mm | 205g (including battery) |                                    |
|                                                                          | 5905309605480 | 9-26V, with a 1,300 mAh rechargeable backup battery to maintain operation in case of power loss | IP65, white ABS plastic<br>Dimensions: 39.5 × 63.5 × 128.5 mm | 190g                     |                                    |