



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 - 7 days (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, 26, 28, 66, 70, 71, 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

Variants

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 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 Dimensions: 32.5 × 60 × 125 mm	145g	
	5905309604780	8,500 mAh battery (replaceable). Battery life up to 8 years	IP65, white ABS plastic 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 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 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 Dimensions: 32.5 × 60 × 125 mm	210g	
	5905309604872	8,500 mAh battery (replaceable). Battery life up to 8 years	IP65, white ABS plastic 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 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 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 Dimensions: 32.5 × 60 × 125 mm	135g	
	5905309604896	8,500 mAh battery (replaceable). Battery life up to 8 years	IP65, white ABS plastic 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 Dimensions: 39.5 × 63.5 × 128.5 mm	190g	