

# LANSEN

Door and window detector (magnet included)

LAN-MIOTY-M2

## DEVICE

The Lansen door and window device alerts as soon as a door or window is opened or closed thanks to its internal onboard reed relay. The functionality can be increased further by adding an external reed relay and magnet to monitor, for example, another window.

Much care have been taken to design a sleek, good looking device with high security and performance. The design allows for discrete integration when in home environment.

## FIRMWARE

MODES mioty ETSI TS-103-357  
ENCRYPTION Network: AES128 encryption

## INTERVAL

TRANSMISSION 120 min and immediately when door/window is opened/closed (up to three openings/closings within 20 minutes)

## MIOTY DATA

ALARM Total window/door openings  
Current status  
Opening occurred 5 min, 10 min or 24 hours ago  
Duration of last alarm

OPERATING Total operating time of device (years)  
Run time since powerup (years)

BATTERY Battery voltage

LOW BATTERY Low battery (2,6V)

TAMPER DETECT Product opened or removed from the wall (optional, not included in standard product)

## POWER/LIFETIME

POWER SUPPLY ER14505 3.6V Li-SOCI2 replaceable battery

VOLTAGE 2.0 to 3.6V

LIFESPAN 14 years expected\*, standard configuration and recommended operating temperature

RADIO 14 dBm (25mW) output power to antenna  
ERP up to typical: 13 dBm (20mW)

## GENERAL INFORMATION

STANDARDS 2014/53/EU (RED)

CASING UV stabilized white, ABS.

SIZE 25.5 x 105 x 22 mm

## OPERATING CONDITIONS

RADIO TRANSMITTER Max: -30°0 to +85°. Recommended +5° to +50°

RELATIVE HUMIDITY None condensing

## ACCESSORIES

External cable connected reed relay  
Magnet kit (extra strong magnet)  
Plastic design shell for magnet kit

## PERFORMANCE

The device has a robust design with optional tamper detection if opened or removed from the wall. If the tamper detection is mounted, a message is sent if sabotage is detected or restored.

The battery level is continuously monitored and a low level warning is issued when battery is nearing depletion.

## MEASUREMENTS

The total number of openings and current opening status is sent periodically. The sensor also send a message as soon as it detects a change in status (door/windows opened or closed). This makes the sensor ideal for integration in data collecting systems, for energy management and HVAC-control or for knowing if doors are opened or closed. Furthermore, the data from the device is protected using the mioty ETSI TS-103-357 encryption.

## EXTERNAL REED RELAY WITH MAGNET

An external reed relay can be connected to the device so that another window or door can be monitored. In other words, by adding an external reed relay, up to two windows/doors can be monitored and the device will alert if one of them are opened or closed.



\*The expected battery lifetime stated is based on simulations and true measurements at 25 C° and is valid to the best of our ability but not a guarantee. The calculations and measurements can be sent upon request for your reference. The lifetime also depends changes on the number of door/window openings. The lifetime is calculated with 24 status changes every 24 hours.