

BLUE PUCK MOV



Bluetooth Low Energy motion sensor

BENEFITS

- Integrated 3 axis accelerometer for Angular position & Motion measurement
- Very high autonomy : up to 20 years
- High transmission range
- Waterproof (IP68)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period



TECHNICAL SPECIFICATIONS

OPERATING MODE

Frequency 2,4 GHz - Bluetooth Low Energy 4.0/4.2
Output power Up to +4 dBm (paramétrable)
Range Up to 500 meters in open field (+4dBm)

Transmission period 2 advertising periods can be configured (value between 0,1 and 86400 seconds). Transition from one to another according to configurable sensor threshold

Radio frame format **ELA ID** (15 bytes identifier)
ELA MOV (15 bytes identifier + 15 bits event counter + 1 bit sensor state)
ELA ANG (15 bytes identifier + 2 bytes X-axis acc + 2 bytes Y-axis acc + 2 bytes Z-axis acc)

Other frame format available on request. Refer to the frames specifications for more informations
 Interface/protocol: NFC (Type 2)

Parameters and configuration

Connected mode Datalogger transmission (record of saved sensor data)
 LED indicator (ON/OFF) command
 Battery level command

Sensors performance

Détecteur d'évènements inertiels (MOV)	Angular position measurement (ANG)
Range: -8g to 8g Threshold level: between 32 mg and 8000 mg Motion event detector: Immediate transmission upon change of motion state	Range: -2g to 2g Resolution: 1mg (LSB) Accuracy: ±0,5% Full scale

BATTERY

Power supply 3 VDC - Internal lithium battery
Battery life MOV = up to 20 years* ANG = up to 20 years*
 * Refer to the battery life curves for more information

Battery level Low battery warning in advertising frames (<15%)
Battery voltage in scan response frames (configurable)

CERTIFICATIONS

Europe CE / UK CA : EN 300 328/ EN 301 489 & EN 55032 / EN 62368-1
USA FCC : FCC 15
Canada ISED : RSS-247 / ICES-003
RoHS/ REACH Yes

HOUSING

Dimensions Ø 57 mm base - Thickness 20 mm
Weight 41g
Materials DELRIN (POM C) Compatible with food products (90/128/EEC)
Waterproofness IP 68
Operating temperature -40°C to +85°C

ACCESSORIES

Tag support **Holder + double-sided adhesive:**
PUCK HOLDER STICKER (ACIOM118B)
Holder only:
PUCK HOLDER (ACIOM117B)
Double-sided adhesive only:
PUCK STICKER (ACIOM188) - 3M PT1100 - Ø 55mm – Thickness: 1,1mm

MECHANICAL DRAWINGS

