

Blue PUCK MOV



Bluetooth Low Energy motion sensor

BENEFITS

- Integrated 3 axis accelerometer for Angular position & Motion measurement
- Very high autonomy : up to 18 years
- High transmission range
- Waterproof (IP69K)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period
- BAF compatible depending on configuration



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)
Customize frame format (like Geotab compliance) via the Bluetooth Advanced features service (ref. ATK64)

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

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 18 years* ANG = up to 18 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 / EN 301 489 & EN 55032 / EN 62368-1
UK	UKCA
USA	FCC : FCC 15
Canada	ISED : RSS-247 / ICES-003
Japan	TELEC
RoHS/ REACH	Yes

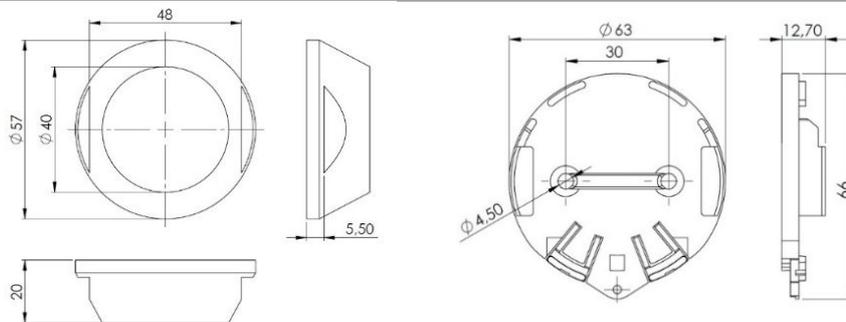
HOUSING

Dimensions	Ø 57 mm base - Thickness 20 mm
Weight	41g
Materials	DELRIN (POM C) Compatible with food products (90/128/EEC)
Waterproofness	IP 69K
Operating temp	-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



BLUE PUCK MOV

PUCK HOLDER

AVAILABLE REFERENCES

Ref	Description
IDF25244-01A	Blue Puck MOV IP69K
IDF25244-02A	Blue Puck MOV Bluetooth advanced features ready version & IP69K