

Blue COIN MOV

Bluetooth Low Energy Motion sensor



BENEFITS

- Integrated 3 axis accelerometer for Angular position and Motion measurement
- High autonomy : up to 4.2 years
- Waterproof (IP68)
- 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 (configurable)
Range	Up to 200 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) <i>Customize frame format (like Geotab compliance) via the Bluetooth Advanced features service (ref. ATK64)</i>
Parameters and configuration	Interface/protocole : NFC (Type 2)
Connected mode	Datalogger transmission (record of saved sensor data) LED indicator (ON/OFF) command Battery level command

Sensor performance

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

BATTERY

Power supply	3 VDC - Internal lithium battery
Battery life	MOV = up to 4.2 years* ANG = up to 4.2 years* <i>*Refer to the battery life curves for more information.</i>
Battery level	Low battery warning in advertising frames (<15%) Battery voltage in scan response frames (configurable)

CERTIFICATIONS

Europe	CE /EN 300 330, EN 301 489, EN 62311, EN 62368
UK	UKCA
USA	FCC : FCC PART 15
Canada	ISED : RSS-247/ICES-003
RoHS/REACH	Yes

HOUSING

Dimensions	Ø 36mm base - hauteur 11,5mm
Weight	13g
Materials	DELRIN (POM C) Compatible with food products (90/128/EEC)
Waterproofness	IP 68
Operating temperature	-30°C to +70°C

ACCESSORIES

Tag support	<p>Holder + double-sided adhesive: COIN HOLDER STICKER (ACIOM92C)</p> <p>Holder only: COIN HOLDER (ACIOM91)</p> <p>Double-sided adhesive only: COIN STICKER (ACIOM187)</p> <p>3M PT1100 - Ø 34mm – Thickness: 1,1mm</p>
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MECHANICAL DRAWINGS

BLUE COIN MOV

COIN HOLDER

AVAILABLE REFERENCES

Ref	Description
IDF10244-02A	Blue Coin MOV Bluetooth advanced features version & IP68