

Wireless sensors



**Blue PUCK MOV**  
Ref. IDF25244



The new industry standard in the wireless motion sensor's market!

- **Angular position** and **motion** measurement
- Very long range: up to **500 meters** (open field)
- High lifecycle: up to **19 years**
- Robust industrial casing - **IP68 waterproof**
- Integrated **NFC** chipset

**TECHNICAL SPECIFICATIONS**

<b>Operating modes</b>	<b>Advertising mode:</b> Periodic sensor data transmission <b>Connected mode:</b> Datalogger transmission (record of saved sensor data)					
<b>Parameters and configuration</b>	Interface/protocol NFC (Type 2) Configuration: Device Manager Suite / Mobile application (Windows / Android) <ul style="list-style-type: none"> <li>• Activation / deactivation</li> <li>• BLE advertised name (15 characters max.) and transmit power</li> <li>• Transmission period (0,1 sec to 10 sec - configurable in seconds)</li> <li>• Acceleration threshold for event detection</li> </ul>					
<b>Sensor option / performances</b>	<b>3 axis Accelerometer:</b> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Motion event detection (MOV)</th> <th style="width: 50%;">Angular position measurement (ANG)</th> </tr> </thead> <tbody> <tr> <td> <b>Range:</b> -8g to 8g  <b>Threshold level:</b> between 32 and 8000 mg  <b>Motion event detector:</b> Immediate transmission upon change of motion state            Transmitted data:           <ul style="list-style-type: none"> <li>- <b>Motion detection counter:</b> Total number of motion events detected (15 bits)</li> <li>- <b>Motion instantaneous state</b> (1bit)</li> </ul> </td> <td> <b>Range:</b> -2g to 2g  <b>Resolution:</b> 1mg (LSB)  <b>Accuracy:</b> ±0,5% Full scale             Transmitted data:           <ul style="list-style-type: none"> <li>- <b>Acceleration value on each axis</b> (X, Y, Z), each on 16 bits (48 bits total)</li> </ul> </td> </tr> </tbody> </table>		Motion event detection (MOV)	Angular position measurement (ANG)	<b>Range:</b> -8g to 8g <b>Threshold level:</b> between 32 and 8000 mg <b>Motion event detector:</b> Immediate transmission upon change of motion state Transmitted data: <ul style="list-style-type: none"> <li>- <b>Motion detection counter:</b> Total number of motion events detected (15 bits)</li> <li>- <b>Motion instantaneous state</b> (1bit)</li> </ul>	<b>Range:</b> -2g to 2g <b>Resolution:</b> 1mg (LSB) <b>Accuracy:</b> ±0,5% Full scale  Transmitted data: <ul style="list-style-type: none"> <li>- <b>Acceleration value on each axis</b> (X, Y, Z), each on 16 bits (48 bits total)</li> </ul>
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<b>Frequency</b>	2.4 GHz – BLE channels					
<b>Output power</b>	Up to +4 dBm					
<b>Range</b>	Up to 500 meters open field (+4 dBm)					
<b>Power supply</b>	3 VDC – Internal lithium battery					
<b>Battery life</b>	<ul style="list-style-type: none"> <li>- Up to <b>19 years</b> (MOV format), up to <b>19.7 years</b> (ANG format) *</li> <li>- Battery voltage reading command using <i>Connected mode</i></li> <li>- 15% remaining battery warning</li> </ul> <i>*For more detailed battery lifetime specification please refer to autonomy spec sheet</i>					
<b>Operating temperature</b>	-40°C to +85°C					
<b>Housing</b>	Ø 57mm base - Thickness 20mm IP68 Waterproof - Weight 36g DELRIN (POM C) material – Food Grade (90/128/EEC)					
<b>Standards</b>	CE (Europe): EN 300 328/EN 300 330, EN 301 489, EN 62311, EN 62368 FCC (USA): FCC PART 15 ISED (Canada): RSS-247/ICES-003 RoHS Certified					
<b>Accessories</b>	Double-sided direct fixation of the tag: PUCK STICKER (ACIOM118) Tag support: PUCK HOLDER STICKER (BOT0126)					