



**LoRa ID**  
Ref. IDF320002



## The industrial LoRa tag to identify your assets on long range distance

- 👁️ Compatibility with public **LoRaWAN** network or **private LoRa network**
- 👁️ **Integrated motion sensor**
- 👁️ Battery life cycle: up to **16 years**
- 👁️ Sturdy industrial casing – **IP68 waterproof**
- 👁️ Integrated **NFC** chip

<i>SPÉCIFICATIONS TECHNIQUES</i>	
<b>Voltage supply</b>	3.6 VDC – 2 LS14500 lithium battery replaceable by the user
<b>Frequency</b>	868MHz
<b>Operating mode</b>	<ul style="list-style-type: none"> <li>• «Periodic wake-up» mode: Periodic data transmission on LORA network on a customizable frequency</li> <li>• «Acquisition» mode: data transmission based on changes in magnetic sensors state</li> </ul> Downlink: change in LoRa class (A, C)
<b>Transmission power</b>	From 4 to 14 dBm (adjustable value)
<b>Transmission period</b>	60 seconds to 24 hours (adjustable value)
<b>Battery life cycle</b>	<b>16 years:</b> one transmission a day at +14dBm <b>15 years:</b> one transmission every 6 hours at +14dBm
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• <u>Measurement range:</u> <ul style="list-style-type: none"> <li>- MAG: 2cm</li> <li>- MOV: motion counter up to 32768 thresholds overrun (AccThresh).</li> </ul> </li> <li>• <u>Resolution:</u> <ul style="list-style-type: none"> <li>- MAG: state change counter on 15MSB (non-signed). Current state in the LSB.</li> <li>- MOV: threshold overrun counter on 15MSB (non-signed). Current state in the LSB.</li> </ul> </li> <li>• PICK TO LIGHT function (High luminosity LED)</li> </ul>
<b>Radio frame format</b>	25 bytes frame format, with identification frame (5 bytes), magnetic sensor state (2 bytes), motion sensor state (3 bytes)
<b>Configuration</b>	Interface/Protocol: NFC (type 2) - Device Manager Software
<b>Operating temperature</b>	-40°C to +85°C
<b>Casing</b>	<ul style="list-style-type: none"> <li>• 119 x 24,5 x 51 mm</li> <li>• 2 fixation holes: øM4</li> <li>• waterproofness IP 68</li> <li>• DELRIN (POM C) Compatible with agri-food products (90/128/EEC)</li> </ul>
<b>Norms</b>	RADIO: EN 300 220-2 / EN 300 220-1 CEM: EN 301 489-3 / EN 301 489-1 Electrical security: EN 60950-1 Health: EN 62311