

# BLUE PUCK PROXIR



## Bluetooth Low Energy distance sensor BENEFITS

- Integrated IR-TOF distance sensor
- High transmission range
- Waterproof (IP68)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period



## TECHNICAL SPECIFICATIONS

### OPERATING MODE

<b>Frequency</b>	2,4 GHz - Bluetooth Low Energy 4.0/4.2
<b>Output power</b>	Up to +4 dBm (configurable)
<b>Range</b>	Up to 500 meters open field (+4dBm)
<b>Transmission period</b>	2 advertising periods can be configured (value between 0,1 and 86400 seconds).
<b>Radio frame format</b>	<p><b>ELA ID</b> (15 bytes identifier)</p> <p><b>ELA PROXIR</b> (15 bytes identifier + 15 bits distance to obstacle (in mm) + 1 integrity flag)</p> <p><i>Other frame format available on request. Refer to the frames specifications for more information</i></p>
<b>Settings and configuration</b>	Interface/protocol: NFC (Type 2)
<b>Connected mode</b>	Datalogger commands (record of saved sensor data)/Battery level
<b>Sensors performance</b>	<p><b>Range:</b></p> <p>Min: 1cm</p> <p>Max: 50-100 cm (depend on target reflectivity and ambient light)</p> <p><b>Precision:</b> +/-5% reading</p> <p><b>Resolution:</b> +/-3% reading</p> <p>The PROXIR sensors use a low energy infrared laser beam to detect targets and is thus sensitive to water accumulation on its surface. To avoid wrong detection when using the sensor in outdoor conditions (rain, condensation) it is thus recommended to install the sensor vertically to evacuate water accumulation.</p>

<b>Power supply</b>	3 VDC - Internal lithium battery
<b>Battery life</b>	<b>Up to 5 years*</b> <i>* Refer to the battery life curves for more information</i>
<b>Battery level</b>	Low battery warning in advertising frames (<15%) Battery voltage in scan response frames (configurable)

### CERTIFICATIONS

<b>Europe</b>	CE / UK CA : EN 300 328/ EN 301 489 EN 55032 / EN 62368-1
<b>USA</b>	FCC : FCC 15.247 / FCC PT 15B
<b>Canada</b>	ISED : RSS-247 / ICES-003
<b>RoHS / REACH</b>	Yes

### HOUSING

<b>Dimensions</b>	Ø 57 mm base - Height 20 mm
<b>Weight</b>	41g
<b>Materials</b>	DELRIN (POM C)
<b>Waterproof grade</b>	IP 68
<b>Operating temperature</b>	-20°C to +85°C
<b>Storage temperature</b>	-20°C to +85°C

### ACCESSORIES

<b>Tag support</b>	<b>Holder + double-sided adhesive:</b> PUCK HOLDER STICKER (ACIOM118B) <b>Holder only:</b> PUCK HOLDER (ACIOM117B) <b>Double-sided adhesive only:</b> PUCK STICKER (ACIOM188) 3M PT1100 - Ø 55mm – Thickness: 1,1mm
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### MECHANICAL DRAWINGS

