

BLUE PUCK PROXIR



Bluetooth Low Energy distance sensor BENEFITS

- Integrated IR-TOF distance sensor
- High transmission range
- Waterproof (IP65)
- Smart & secure programming by NFC
- Over The Air Programming (OTAP)
- Dynamic Advertising period



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 500 meters open field (+4dBm)
Transmission period	2 advertising periods can be configured (value between 0,1 and 86400 seconds).
Radio frame format	<p>ELA ID (15 bytes identifier)</p> <p>ELA PROXIR (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>
Settings and configuration	Interface/protocol: NFC (Type 2)
Connected mode	Datalogger commands (record of saved sensor data)/Battery level
Sensors performance	<p>Range:</p> <p>Min: 1cm</p> <p>Max: 50-100 cm (depend on target reflectivity and ambient light)</p> <p>Precision: +/-5% reading</p> <p>Resolution: +/-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>

BATTERY

Power supply	3 VDC - Internal lithium battery
Battery life	Up to 5 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 / UK CA : EN 300 328/ EN 301 489 EN 55032 / EN 62368-1
USA	FCC : FCC 15.247 / FCC PT 15B
Canada	ISED : RSS-247 / ICES-003
RoHS / REACH	Yes

HOUSING

Dimensions	Ø 57 mm base - Height 20 mm
Weight	41g
Materials	DELRIN (POM C)
Waterproof grade	IP 65
Operating temperature	-20°C to +85°C
Storage temperature	-20°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
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MECHANICAL DRAWINGS

