

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

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	ELA ID (15 bytes identifier) ELA PROXIR (15 bytes identifier + 15 bits distance to obstacle (in mm) + 1 integrity flag) <i>Other frame format available on request. Refer to the frames specifications for more information</i>
Settings and configuration	Interface/protocol: NFC (Type 2)
Connected mode	Datalogger commands (record of saved sensor data)/Battery level
Sensors performance	Range: Min: 1cm Max: 50-100 cm (depend on target reflectivity and ambient light) Precision: +/-5% reading Resolution: +/-3% reading

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 68
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
--------------------	---

MECHANICAL DRAWINGS

