



# neroPIN

## The neroPIN Dead-Reckoning Reference Point Marker

The **neroPIN** Bluetooth device was designed to be used in extreme environments, equipped with latest BLE 5.2 standard, the **neroPIN** offers low power long range beaconing to allow for location tracking and system association by means of proximity detect based on RSSI signal level. The **neroPIN** by default advertises a protocol proprietary to Nerospec devices. This device features an internal jumper for activation, that allows the device to be stored for extended periods of time without the need to remove the batteries. Simple mount using the supplied double-sided tape.

NODE FEATURES	SYSTEM ADVANTAGES	NODE PARAMETERS
<ul style="list-style-type: none"> <li>5 Year Battery Life</li> <li>Non-Volatile Memory</li> <li>IP67 Enclosure</li> <li>Maximum of 100 metre Range</li> </ul>	<ul style="list-style-type: none"> <li>1 Year Warrantee</li> </ul>	<ul style="list-style-type: none"> <li>Configurable Transmission Interval</li> </ul>



### HOME USE



Vehicle Theft Prevention



Home Access Control



Home security / anti-theft



### ENTERPRISE USE



Warehouse Personnel Positioning



Access Control



Security



### INDUSTRIAL USE



Vehicle Tracking



Safety Awareness



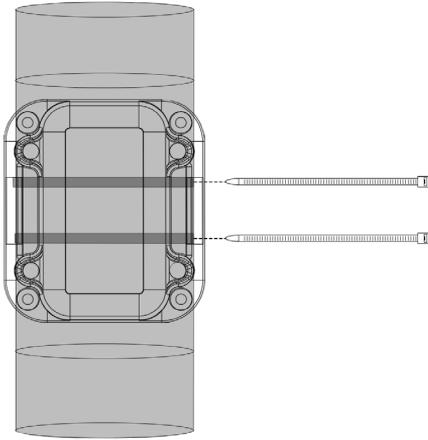
Personnel Awareness

## CERTIFICATION



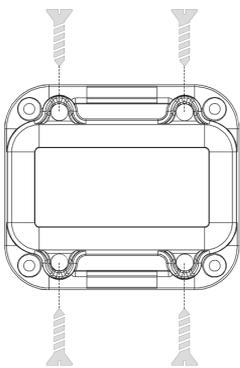
# INSTALLATION GUIDE

## USING CABLE TIES ON A POLE



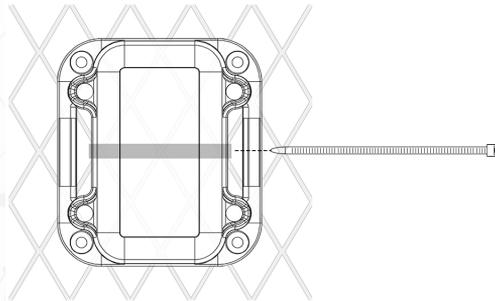
1. Determine the location for the neroPIN to be fitted
2. Ensure that the wings of the neroPIN are on the sides of the pole onto which the neroPIN is to be cable-tied
3. Slide the cable-ties into the slot in the wing, pass them past the back of the neroPIN to the other wing and slide them through the slot in that wing
4. Bend the cable-ties around the wing and the pole onto which it is to be mounted back towards the fastening side
5. Push them through the fastening block and pull the cable-ties to secure the neroPIN in place tightly.

## USING SCREWS ON A WALL



1. Determine the location for the neroPIN to be fitted
2. Ensure that the wings of the neroPIN are on the sides of the position onto which the neroPIN is to be cable-tied
3. Slide the cable-ties into the slot in the wing, pass them past the back of the neroPIN to the other wing and slide them through the slot in that wing
4. Bend the cable-ties around the wing and pass them through the eye of the fence onto which it is to be mounted back towards the fastening side
5. Push them through the eye of the fence and then the fastening block and pull the cable-ties to secure the neroPIN in place tightly.

## USING CABLE TIES ON A FENCE



1. Determine the location for the neroPIN to be fitted
2. Ensure that the wings of the neroPIN are on the sides of the position onto which the neroPIN is to be cable-tied
3. Slide the cable-ties into the slot in the wing, pass them past the back of the neroPIN to the other wing and slide them through the slot in that wing
4. Bend the cable-ties around the wing and pass them through the eye of the fence onto which it is to be mounted back towards the fastening side
5. Push them through the eye of the fence and then the fastening block and pull the cable-ties to secure the neroPIN in place tightly.

# TECHNICAL SPECIFICATIONS

## FEATURES

<b>Operating Frequency Bands:</b>	2400 ~ 2500 MHz
<b>Maximum Tx Gain:</b>	+8 dBm
<b>Maximum Rx Sensitivity:</b>	-96 dBm
<b>Operating Temperature Range:</b>	-40 °C ~ +85 °C
<b>Storage Temperature Range:</b>	-40 °C ~ +85 °C
<b>Maximum Signal Range:</b>	±100 m

## INTERFACE & CONTROL

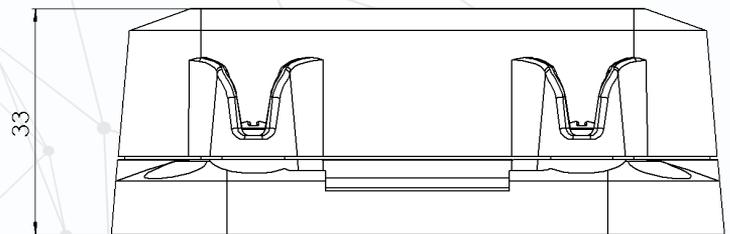
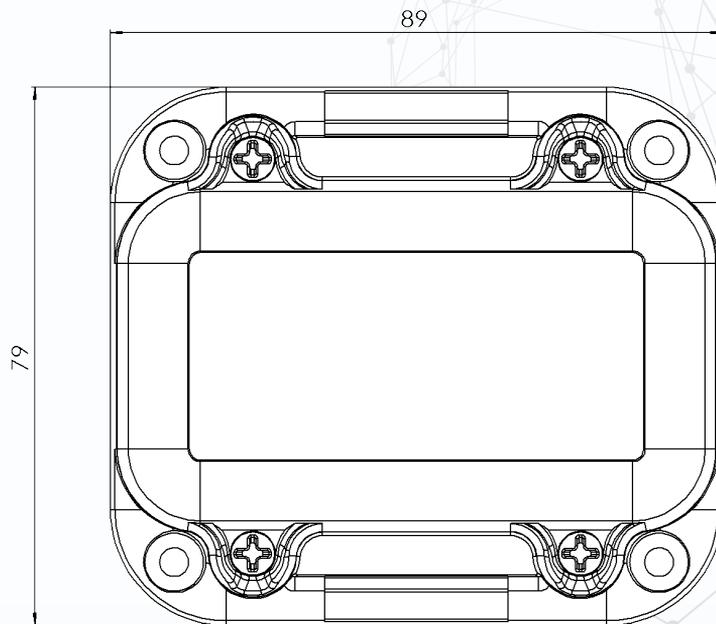
Description	Spec / Range / Type
Battery Specifications	2 x 3,6 V AA Batteries
Antenna Gain	+5/7 dBm
Antenna Polarisation	Copper Patch Antenna - InHouse
Transmit Power	+4 dBm max
Receive Sensitivity	-97 dBm

## BATTERY OPTIONS:

Manufacturer	Part number	Voltage	Capacity
EVE	ER14505V	3,6 V	2,6 Ah
TADIRAN	SL-360	3,6 V	2,4 Ah
SAFT	LS14500	3,6 V	2,6 Ah

## PHYSICAL CHARACTERISTICS:

IP67 enclosure.	
Height	132 in, 33 mm
Length	356 in, 89 mm
Width	316 in, 79 mm
Weight	<b>Without Battery:</b> 86 g <b>With Batteries:</b> 140 g
Principle Material	ASA Plastic
Colour	Black



Disclaimer: Devices seen in this datasheet are subject to change.



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