

DOLPHIN CONNECT BEACON

Beacon ID DC50 and Beacon Sensor DC50 are small wireless devices that use Bluetooth Low Energy (BLE5) technology to transmit signals. Beacons serve as signals or markers that continuously transmit specific identifiers to nearby devices at short, regular intervals.

In this context, when the beacon device is in the desired range, the Gateway and advanced trackers, equipped with Bluetooth, can detect its presence by receiving and interpreting the transmitted signals from the beacon. These two beacon models are cost-effective, adaptable to user needs, and enhance fleet efficiency, saving time and resources.



DEVICE FEATURES



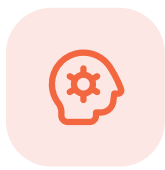
Long Battery Life

The devices' batteries will last for 3 to 5 years and then be replaceable to decrease costs.



Waterproof Cover

The strong and waterproof coating of both beacon models makes the device last longer.



Smart Design

The small size of the beacon devices makes them suitable for various applications in cars.



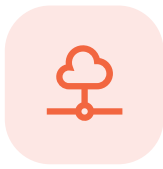
Easy Installation

Users can easily install the devices securely on the vehicles without destroying the wiring.



Configurable Signal Power and Data Interval

The Beacon's transmission power and data transfer interval can be configured in the app.



Protocol Switch

The device can transfer data via three protocols including Eddystone, iBeacon, and Dolphin Custom Protocol.



Mobile Application

The mobile application is highly applicable for performing various tasks such as sensor calibration & configuration, parameter monitoring, OTA firmware updates, and determining the distance from the beacon.



Configurable Sleep Mode

The device's sleep mode can be customized to receive various data such as sensor data and wake up, or be deactivated according to user preferences, ensuring long-term battery life for years.



Various Data Collection

Both Beacon ID and Beacon Sensor calculate the device's battery percentage. Beacon Sensor DC50 collects data such as temperature, humidity, and motion detection from assets.

TECHNICAL SPECIFICATIONS

	DC50-ID Beacon	DC50-Sensor Beacon
Physical		
Product Size	56 x 45 x 35 mm	56 x 45 x 35 mm
Product Weight	30 Gr	30 Gr
Functionality	ID Beacon	Sensor Beacon
Color	Black	Black
Materials	ABS+PC & TPU	ABS+PC & TPU
Protocols	iBeacon, Eddystone	iBeacon, Eddystone
Sensors	–	Temperature, Humidity, Tilt, Motion, and Angle
Link Layer Protocol	GAP	GAP
Attribute Protocol	GATT	GATT
Environmental Requirements		
Humidity	–	From 0% to 100%
Operational Temperature	–	–20°C / +60°C (–4°F / +140°F)
Storage Temperature	–	–20°C / + 70°C (Without Battery) 10°C / + 25°C (With Battery)

	DC50–ID Beacon	DC50–Sensor Beacon
Connectivity		
Bluetooth	Bluetooth 4.2 Compliant Bluetooth 5.4 Certified	Bluetooth 4.2 Compliant Bluetooth 5.4 Certified
Range	50 m	50 m
Available Transmission Power Levels	Up to 8 dBm	Up to 8 dBm
Sensitivity	–88 dBm	–88 dBm
Casing		
Ingress Protection Rating	IP67	IP67
Installation	Screw/Leash/Strip & Tape	Screw/Leash/Strip & Tape
Electronic		
Main Chip	Nordic NRF52 Series	Nordic NRF52 Series
Quartz Crystals	32.768 kHz, 64MHz	32.768 kHz, 64MHz
BT Operating Frequency	2.402 – 2.480 GHz	2.402 – 2.480 GHz
BT Antenna Gain (Peak)	1.2 dBi	1.2 dBi
Battery & Power		
Model	CR2450	CR2450
Type	Lithium, Manganese Dioxide (Li/MnO2)	Lithium, Manganese Dioxide (Li/MnO2)
Total Capacity	550 mAh	550 mAh
Battery Voltage	3.0V	3.0V
Replaceable	Yes	Yes
Life Time	3_5 Years (Based on Setting)	3_5 Years (Based on Setting)

BEACON APPLICATION

