

Bluetooth Smart Beacon

Navigation in enclosed spaces using BLE technology

A beacon is a small radio device that transmits signals to the surrounding area at preconfigured intervals, which can then be received by other smart devices, as a means of exchanging data and information.

If positioned accordingly, it is possible to localise people or devices, determine one's own location, and evaluate routes. Beacon technology can also be used to navigate enclosed spaces. A smartphone app is used to analyse the information from the beacon. The data received can also be used to offer the user a range of services. It is not necessary to create a Bluetooth connection between the smartphone and the beacon. It is possible to receive signals from different beacons consecutively, if they are in range.

An electronic *Beacon* functions in basically the same way as a traditional fire beacon. Indeed it can be understood as a virtual navigation light that transmits information. A number of beacons are placed at different positions within an enclosed space, each of which emits its signal at fixed intervals. If a receiver, such as a smartphone, is within range of a transmitter, the transmitter can be identified and the distance determined based on its signal strength. If several beacons are within range of the smartphone, the position

of the receiver within the space can be determined. Depending on the location, it is also possible to send targeted information,

which can then be displayed on the smartphone.

The LinTech Smart Beacon has a range of around 30 metres, depending on the nature of the receiver and the surrounding conditions. It features low current consumption, which means that the battery will not require replacing for up to two years. It is possible to switch between the **LinTech Standard Beacon**, **iBeacon** and **Google Eddystone** modes using an app. This enables the device to be used flexibly for various applications and provides a basis for independent individual or standardised solutions.

Applications

- Indoor navigation
- Proximity marketing (transmission of push messages when approaching objects or at events)
- Real-time flow measurement (people, goods or equipment)
- Regular customer recognition

Features of the Bluetooth Smart Beacon

- Supports LinTech Smart Beacon iBeacon Technology, Google Eddystone
- Physical Web Support
- Bluetooth Low Energy V.4.1
- Device name configurable
- Advertising settings configurable
- Transmit power configurable
- Display of Battery state (LinTech Smart Beacon)
- Range depends on configured transmit power
- Optical and acoustical signalization of system states (optional)
- Standard-Batteries (AAA, CR2477 or ½ AA LI)
- Battery life max. 3-4 years(depends on model)
- Optional: external power supply
- Optional: on/off button
- Configurator-App for Android and IOS
- Bluetooth Design ID D028915

Order information

Part# 1509-BCN1



LinTech Smart Beacon

- 65x40x26mm
- 2x AAA Batteries
- Mounting with adhesive pad

Part# 1509-BCN2



LinTech Smart Beacon

- 65x40x26mm
- 2x AAA Batteries
- Mounting with wall mount kit

Part# 1509-BCN4



LinTech Smart industrial Beacon

- IP 65
- 52x50x35mm
- ½ AA LI-Battery 1,2Ah
- Mounting with screws

Art.-Nr. 1509-BCN5



LinTech-BT-Smart 230V AC 50hz Beacon

- 53x37x23mm
- 230V AC 50hz clamp
- Mounting with screws

Other IP housing models for the outdoor area are available on request.



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