

FCL Components Wireless Modules

Bluetooth® Version 5.0 Beacon

FWM8BLZ07

Overview

A *Bluetooth* Version 5.0 beacon which can broadcast advertising data with selectable operating modes.



RoHS compliant

Features

- **Selection of 3 operation modes**
 - Broadcast mode: output advertising data as a broadcaster
 - Peripheral mode: makes bidirectional communication with a central device
 - Recovery mode to reset settings to factory settings
- **OTA configuration mode**
In *Over-The-Air* (OTA) configuration mode the beacon unit settings and data can be re-configured by connecting to the central device
- **LED status indicator**
The Beacon status can be displayed on the LED indicator
- **Long operation life with coin cell battery**
The Beacon is able to operate for more than 2 years with a CR2450 coin cell battery at 1 second advertise interval



FWM8BLZ07

Applications

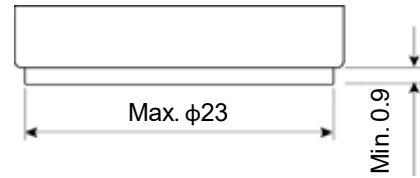
- Asset and human tracking

Specifications

| Item | Specifications |
|----------------------------------|---|
| Part number | FWM8BLZ07-xxxxxx (xxxxxx: suffix to specify each customer's settings) |
| Type | Beacon |
| Antenna | Embedded (pattern antenna) |
| Bluetooth technology | Bluetooth core specification Version 5.0 (LE single mode) |
| Transmit power | -16, -12, -8, -4, 0, +4 dBm (changeable by command) |
| IC | Nordic Semiconductor nRF52832 |
| Power supply | Coin cell lithium battery CR2450 (not included) |
| Operating temperature / humidity | -30°C to +60°C, 20 to 80% RH |
| Dimensions / Weight | 40 x 31 x 12mm / Approx. 10g (without battery) |
| Certifications | Bluetooth Qualification (QDID), Radio Act (Japan), FCC, ISED, CE |
| Other | Battery voltage notification function Secure advertise function |

■ Battery specifications

Note: Use of coin type lithium battery CR2450
Please use the battery meets Figure 1 (minus electrode height min. 0.9mm, diameter max. 23 mm) to keep enough clearance between beacon holder and battery.

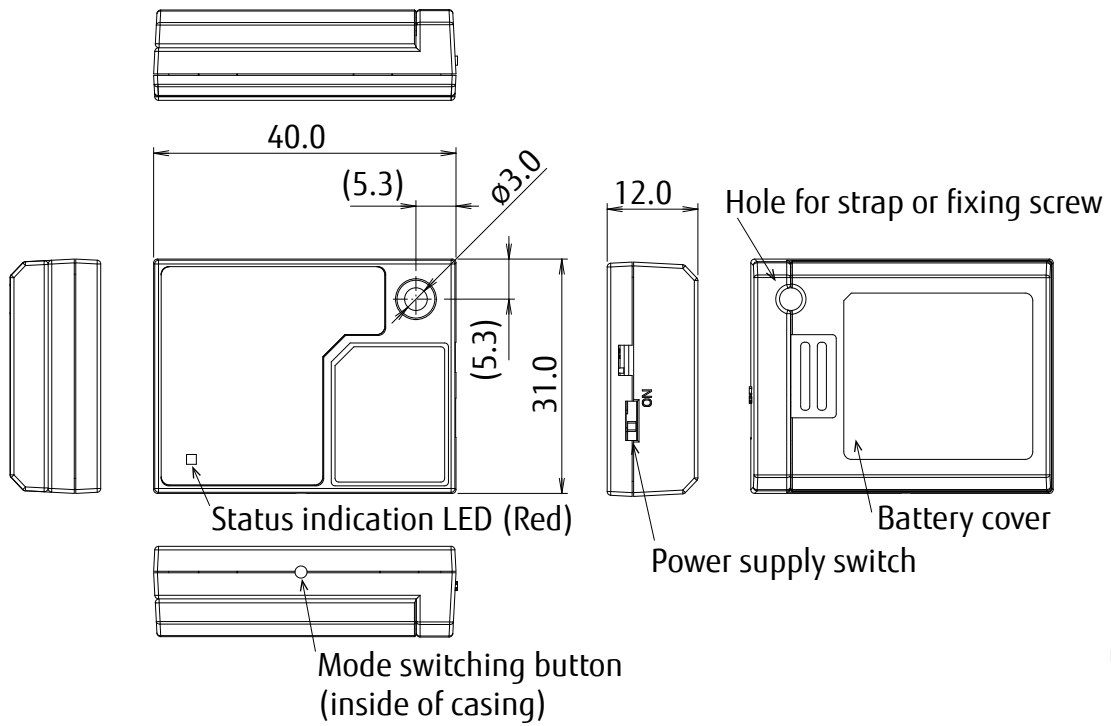


Unit: mm

Figure 1

■ Dimensions

FWM8BLZ07



Unit: mm

Note: The *Bluetooth*™ word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by FCL Components is under license. Other trademarks and trade names are those of their respective owners.

Contact

Japan

FCL COMPONENTS LIMITED
Shinagawa Seaside Park Tower
12-4, Higashi-shinagawa 4-chome,
Tokyo 140 0002, Japan
Tel: +81 3 3450 1682
Email: fcl-contact@cs.fcl-components.com

Europe

FCL COMPONENTS EUROPE B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: +31 23 5560910
Email: info@fcl-components.eu

China

FCL COMPONENTS (SHANGHAI) CO., LTD.
Unit 1105, Central Park –Jing An, No.329 Heng
Feng Road, Shanghai 200070, China
Tel: +86 021 3253 0998
Email: fcsh@fcl-components.com

North and South America

FCL COMPONENTS AMERICA, INC.
2055 Gateway Place, Suite 480
San Jose, CA 95110 U.S.A.
Tel: +1 408 745 4900
Email: fcai.components@fcl-components.com

Asia Pacific

FCL COMPONENTS ASIA, LTD.
No. 20 Harbour Drive, #07-01B
Singapore 117612
Tel: +65 6375 8560
Email: fcal@fcl-components.com

Web: www.fcl-components.com/en/

Copyright

All trademarks or registered trademarks are the property of their respective owners. FCL Components America or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products FCL Components America, Inc. or its affiliates reserve the right to change specifications/datasheets without prior notice.

Copyright ©2024 FCL Components America, Inc. All rights reserved. Revised February 1, 2024.
