



Bluetooth® Low Energy Beacon LOC-EX 01

- Compatible with Bluetooth® Low Energy from version 4.0
- Range inside buildings up to 30 m, outdoors up to 200 m (Geolocation)
- Possibility to change important operating parameters "over the air"
- Open firmware for individual BLE profile development (TI CC2541)
- UV-resistant housing according to IP64 (can also be used outdoors)

Loc-Ex® 01, DIV 1 and Zone 1/21



Function

The intrinsically safe Bluetooth® Low Energy beacon Loc-Ex® 01 can be mounted directly on a suitable surface or easily adapted to the optional mounting plate, which facilitates the replacement of the beacons' batteries. The Bluetooth Low Energy standard makes the beacons compatible with today's popular smartphones and tablets. They can be detected by these devices from a distance of up to 200 meters (outdoors). The beacon signals can be interpreted by the mobile device through custom applications, interacting with the user or other programs.

Technical Data

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|--|---|
| General specifications | |
| Color | black |
| Electrical specifications | |
| Battery type | 2x Saft, LS14500 3.6 V, 2600 mAh AA / Mignon / R6 Li-SOCI2 |
| Operating duration | approx. 4 years (with factory setting) |
| Interface | |
| Interface type | Bluetooth® Low Energy (from 4.0) |
| Transmitter frequency | 1000 ms |
| Transmitter radiated power | max. 8 dBm |
| Detection range | 30 m range in buildings, max. 200 m outdoors |
| Protocol | ECOM Standard compatible with Android™ smartphones (UUID, Major ID, Minor ID, RX Power) |
| Approvals and certificates | |
| CE conformity | CE0102 |
| Ambient conditions | |
| Ambient temperature | -20 ... 55 °C (-4 ... 131 °F) |
| Storage temperature | -30 ... 30 °C (-22 ... 86 °F) |
| Mechanical specifications | |
| Degree of protection | IP64 |
| Mass | approx. 180 g (including batteries) |
| Dimensions | |
| W x H x D | 111 mm x 102 mm x 48 mm |
| Data for application in connection with hazardous areas | |
| ATEX approval | |
| ATEX certificate | EPS 16 ATEX 1 043 X |
| ATEX marking | Ⓜ II 2G Ex ia IIC T4 Gb IP64 Ⓜ II 2D Ex ia IIIC T125°C Db IP64 |

Release date: 2024-12-04 Date of issue: 2024-12-04 Filename: 481169_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Technical Data

International approvals

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|---------------------|--|---|
| IECEX approval | | |
| IECEX certificate | | IECEX EPS 16.0019X |
| IECEX marking | | Ex ia IIC T4 Gb IP64 Ex ia IIIC T125°C Db IP64 |
| NEC/CEC approval | | |
| NEC/CEC certificate | | 70105641 |
| NEC/CEC marking | | Class I, II, III, Division 1 Groups A-G, T4 Class I, Zone 1, AEx ia IIC T4 Gb Ex ia IIC T4 Gb Class II, Zone 21, AEx ia IIIC T125°C Db IP64 Ex ia IIIC T125°C Db IP64 |

General information

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| Scope of delivery | | Loc-Ex® 01 Batteries Documentation |
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Accessories

Accessories for this product can be found on the internet at www.pepperl-fuchs.com.

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