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Loc-Ex[®] 01 - BLE Beacon

LOCALIZATION IN HAZARDOUS AREAS

Loc-Ex® 01



CERTIFICATION

ATEX 	Ⓢ II 2G Ex ia IIC T4 Gb IP64 Ⓢ II 2D Ex ia IIIC T125°C Db IP64
IECEX 	Ex ia IIC T4 Gb IP64 Ex ia IIIC T125°C Db IP64
NEC & CEC 	Class I, II, III, Division 1 Groups A-G, T4 Class 1, 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

DESCRIPTION

BLE BEACONS are small radio beacons that emit a signal at periodic intervals.

The Bluetooth 4.0 standard makes the beacons compatible with currently popular smartphones & tablets and they can be recognized by such devices over a distance of up to 200 m. The beacon signals can be evaluated by the mobile device via individual applications and, in this way, interact with the user or other programs.

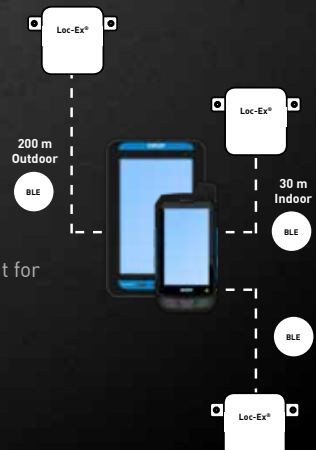
FOR INSIDE AND OUTSIDE THE EX-HAZARDOUS AREA

The beacons are available for ATEX / IECEX Zone 1/21 (Loc-Ex® 01), with NEC / CEC approval (Loc-Ex® 01) and for non-ex areas (Loc 01 HC & Loc 01 SC). Due to their UV-resistant housing material they can be used both, indoors and outdoors.

The beacons can be mounted directly on a suitable surface or easily adapted on the optional available mounting plate (which facilitates the battery exchange of the beacons).

BENEFITS OF APPLICATION

- Indoor localization
- Lone worker protection
- Physical access control
- Guard control system
- Guiding visitors
- BLE Beacon as replacement for NFC beacon



BLUETOOTH LOW ENERGY LOCALIZATION BEACONS



SCOPE OF DELIVERY

- Loc-Ex® 01 / Loc 01 (HC/SC)
- Batteries
- Documentation

COMPATIBLE WITH

- Smart-Ex® Series
- Ex-Handy 09
- Tab-Ex® Series
- Pad-Ex® 01

ACCESSORIES

- Development Kit
- Batteries
- Mounting Plate
- Screwdriver
- BT Dongle

Loc-Ex® 01 for use in Ex-hazardous areas

FEATURES

- ATEX / IECEx Zone 1/21
- NEC & CEC approval
- Also available as Non-Ex Versions
- Compatible with Bluetooth Low Energy from version 4.0
- Range inside buildings up to 30 m, outdoors up to 200m
- Possibility to change important operating parameters „over the air“
- Open firmware for individual BLE profile development (TI CC2541)
- IP64 Stable UV-resistant enclosure (can also be used outdoors)

TECHNICAL DATA

Ambient temperature Ta	-20°C ... +55°C
Storage temperature	-30°C ... +30°C
Power supply	2 x LS14500 (Loc-Ex® 01 / Loc 01 HC) 2 x AA / LR6 (Loc 01 SC)
Operating time	approx. 4 years (factory settings) (Loc-Ex® 01 / Loc 01 HC-continuous operation) approx. 2 years (factory settings) (Loc 01 SC-continuous operation)
Transmission power	max. 8 dBm
Dimensions	48 x 111 x 102 mm (H x L x W)
Weight	approx. 180g (with batteries)
CE-designation	CE0102

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