

**ecom**

A PEPPERL+FUCHS BRAND






## Loc-Ex<sup>®</sup> 01 - BLE Beacon

# LOCALIZATION IN HAZARDOUS AREAS

# Loc-Ex<sup>®</sup> 01



CERTIFICATION	
<b>ATEX</b> 	Ⓜ II 2G Ex ia IIC T4 Gb IP64 Ⓜ II 2D Ex ia IIIC T125°C Db IP64
<b>IECEX</b> 	Ex ia IIC T4 Gb IP64 Ex ia IIIC T125°C Db IP64
<b>NEC &amp; CEC</b> 	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.

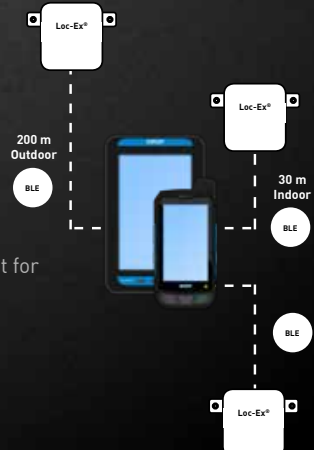
## FOR INSIDE AND OUTSIDE THE EX-HAZARDOUS AREA

The beacons are available for ATEX / IECEX Zone 1/21 (Loc-Ex<sup>®</sup> 01), with NEC / CEC approval (Loc-Ex<sup>®</sup> 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



**COMPATIBLE WITH**

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

**SCOPE OF DELIVERY**

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

**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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