



Bluetooth® Low Energy Beacon LOC-EX 01 MOT

- 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

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	Motorola MOTOTRBO™
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
International approvals	

Release date: 2024-12-04 Date of issue: 2024-12-04 Filename: 70141160_eng.pdf

Technical Data

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	
Scope of delivery	Loc-Ex® 01 Batteries Documentation

Accessories

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