



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 beacon **Loc-Ex® 01** 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). The Bluetooth® 4.0 standard makes the beacons compatible with currently popular smartphones and tablets. They can be recognized by such devices over a distance of up to 200 m (outdoors). The beacon signals can be evaluated by the mobile device via individual applications and, in this way, interact with the user or other programs.

Technical Data

Electrical specifications	
Battery type	2 x LS14500 (type approved)
Operating duration	approx. 4 years (with factory setting)
Interface	
Interface type	Bluetooth® Low Energy (from 4.0)
Transmitter radiated power	max. 8 dBm
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	
Mass	approx. 180 g (including batteries)
Dimensions	48 mm x 111 mm x 102 mm (l x w x h)
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	
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 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

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

Technical Data

General information

Scope of delivery	Loc-Ex® 01 Batteries Documentation
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