FLUSH, Fastprk Magnetic Sensor

Model: FP-GFLL

Description

The Fastprk sensor uses magnetic sensors to precisely detect the presence of vehicles. It houses advanced signal processing, meaning that it can differentiate between the various magnetic fields in its surroundings to achieve highly reliable detection.

The Fastprk sensor uses radio communication protocols based on standard certified technology. The sensors are capable of direct communication with the Gateway within a radius of up to 500 metres. As it does not use repeaters, this solution enables significant savings in the installation of the network.

Installation of the sensor

The Fastprk sensor must be positioned in the centre of the parking space. It is important to make sure the ground is dry before performing the installation. The step-by-step procedure is as follows:

- Mark the spot where the sensor will go;
- Drill a 70 mm-deep hole with a diameter of 112 mm;
- Prepare the Mapegrout SV grout;
- Put approximately 250 ml of the grout in the hole;
- Insert the sensor and clean off any excess grout;
- Leave the grout to dry for approximately 15 minutes.

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Calibration of the sensor

Once the sensor is in its final position, it must be calibrated. To do so, you need the following tools:

- A smartphone with the Worldsensing calibration app installed;
- A Worldsensing RFID reader;
- The username and password provided by Worldsensing.

Calibration process

1. Turn on Bluetooth on the smartphone.
2. Log into the app on the smartphone.
3. Press the power button on the RFID reader.
4. Go to “Scan for device” in order to find nearby devices.
5. Make sure there are no metallic objects within 3 metres of the sensor, for example cars, tools or fences.
6. In the app, press “Discovery” while holding the RFID reader close to the sensor.
7. The ID of the sensor will appear on the screen together with information about the calibration.
8. In the app, press “Calibration”. The sensor’s calibration process begins.
9. A minute later, press “Report” while holding the reader close to the sensor.

Specifications

Dimensions	Ø 104 x 64 mm
Weight	435 g
Working temperature range	-30°C to +70°C
Protection	IP67
Power supply	3.6 VDC
Communications frequency	902 – 928 MHz
Distance to Gateway	200 metres
Battery type	Li-SOCl2

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FCC/IC Regulatory notices

Modification statement

Worldsensing, S.L. has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Interference statement

This device complies with Part 15 of the FCC Rules and Industry Canada's licence-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Wireless notice

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Class B digital device notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003.