

Charging Spot 3.1 Rev B

The Powermat Charging Spot is a critical component of the wireless charging solution. Users place their phones on the Charging Spot and connect with your venue, creating a new, highly personalized customer engagement channel.

Wireless Charging Spot in your venue!

Fueled by Powermat's latest technology, Charging Spot 3.1 Rev B brings an upgraded experience to your customers—presenting fast wireless charging, with the durable design we know & love.

Charging Spot 3.1 Rev B enables you to engage with your customers at your venue, in real time. The Charging Spot is connected to Powermat's network, allowing remote monitoring and software upgrades. With the integrated beacons, the Charging Spot can support conditional charging with a mobile application.

Charging Spot 3.1 Rev B, can be installed in two ways: Surface-mounted or sub-surface.



UNIVERSAL SUPPORT

Qi certified, AirFuel, Apple 7.5W and Samsung fast charging capabilities



FASTER CHARGING

Charging speed up to 8 times of industry standard (15W Qi and extendable to 40W*)



IOT PLATFORM

BLE based connectivity enabling Charging Spot management and location based services



ENHANCED Z RANGE

Charging through 8mm surfaces in sub-surface installation mode



FUTURE-PROOF

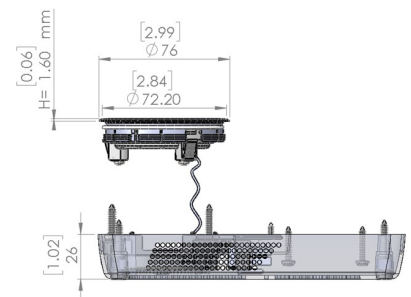
Over the Air updates, providing future upgrades to support new features and functionalities

* for supported receivers

Designed for the public space

Charging Spot 3.1 Rev B was designed for volatile and high traffic venues:

- Safe in wet environments: The transfer of power is based on magnetic inductance and therefore safe even when the table surface is wet.
- Durable design: The Charging Spots were designed to withstand chemicals and cleaning solvents.
- Easy installation: Up to 4 Charging Spots can connect to a single Power Supply.



Specifications

Electrical

Receiver output power:
up to 15W (extendable to 40W for supported receivers)

DC Voltage input 24V

Current input 0.9A for 15W output

Up to 4 spots connected to one power supply

Operating frequencies:
Ping 110–205kHz

Built-in protections: voltage, current, thermal, foreign object detection

Environmental Data

Operating Ambient Temperature: 0 to 40 °C,
recommended 25 °C

Non-Operating Ambient Temperature: -20 to 80 °C

Operating Humidity: 20% to 90% (non-condensing)

Non-Operating Humidity: 5% to 95%

Communication

Includes managed BLE, Bluetooth 4.2,
Transmit Power 0 dBm

Beacon (BLE) services support iBeacon and Eddystone
communication protocols

Remote Firmware Upgrade

Operating frequency: 2.4GHz

Performance

Nominal Power Transfer Efficiency: 80%

Charging Speed: iPhone 8: 25% in 20m; Samsung Galaxy
S8: 17% in 20min (20 min = average charging session length)

Regulatory Compliance

Qi certified

CE, FCC, RSS – Radiated and Conducted emissions;
Maximum power exposure; RF Exposure

UL, IEC – Product safety for wireless charging

RoHS, REACH, California Proposition 65 – Environmental
restrictions, SOR/2014-254

Mechanical Parameters

Parameters

Surface mounted

Hole type	Pass through
Hole/Cave diameter	2.75" (70mm)
Surface type	Wood/MDF/Ply, Corian (any polymer based surface) & stone surfaces
Tool	TCT, bi metal, or diamond grit hole saw. Hand tool OK
Top surface footprint	Horizontal: 3" (76mm); vertical 0.063" (1.6mm) above surface
Bottom surface footprint	Width: 3.83" (97.28 mm) Length: 7.02" (178.31 mm) Thickness: 1.03" (26.16 mm)
Overall surface thickness	1/2" – 3" (12.7 mm – 76.2 mm)

Sub-surface

Partial cavity (thickness above cavity 3.5–6mm)
2.75" (70mm)
Wood/MDF/Ply, Corian (any polymer based surface) & stone surfaces
CNC / routing
Charging spot marking on the surface
Width: 3.83" (97.28 mm) Length: 7.02" (178.31 mm) Thickness: 1.03" (26.16 mm)
1/2" – 3" (12.7 mm – 76.2 mm)

Artwork & Customization

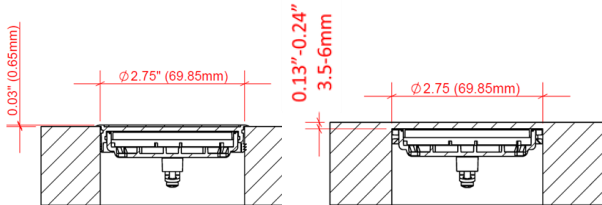
High gloss, durable Lexan cover

Color and graphics can be customized for your brand

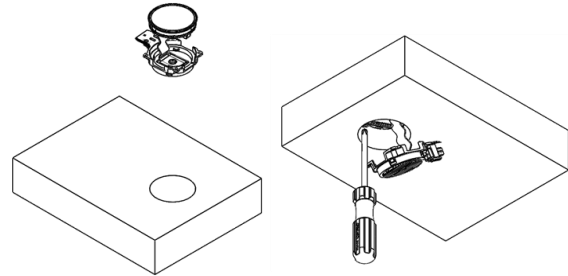
Easy Installation

Bellow are the high level installation steps for Charging Spot 4.0

- 1** Make a hole / cavity in furniture for the magnetic coil

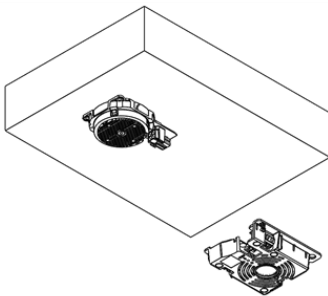


- 2** Insert the magnetic coil encasing to the hole

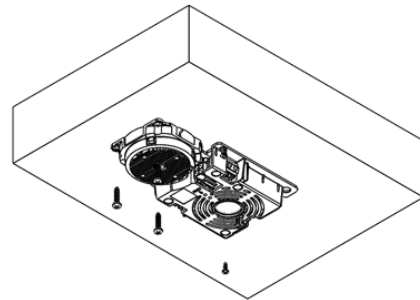


For sub-surface installation insert the magnetic coil below the surface against the cavity wall

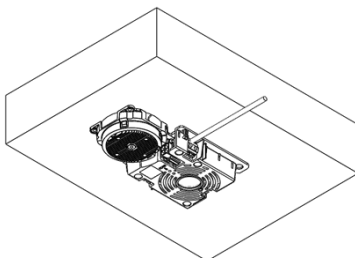
- 3** Connect and secure the electronic module



- 4** Fasten heat sink and electronic module to the surface



- 5** Insert power wires into push-button connectors



- 6** Secure bottom cover housing

