

Each Charging Spot 3.1 is a network-connected unit, enabling you to push r eal time proximity offers to customers. The cloud connected charging network also allows for remote monitoring, management and upgrades. Additionally, integrated beacons enable user activation of charging through the Powermat application. You can choose to install the Powermat Charging Spot 3.1 in one of two ways: Surface-mount or sub-surface.

### Wirelessly charges all mobile phones

Powermat Charging Spot can power all Qi and AirFuel-Inductive certified devices (i.e., iPhone 8/8Plus/X, Samsung Galaxy S6/7/8/9). Phones without built-in wireless charging can be charged with the help of a Powermat Ring.

To learn more about wireless charging compatiable devices go to: https://www.powermat.com/technology/compatible-phones/

### Designed for public spaces

The transfer of power is based on magnetic inductance and therefore safe even when the table's surface is wet, and spots are designed to withstand chemicals and cleaning solvents.

Durable and easy to maintain, the Charging Spot 3.1 can be installed on most surface types.

Our best in class intelligent DC Power delivery solution provides ultimate flexibility without costly electrical work. A single electrical port can support up to eight Charging Spots with one power delivery unit. Our custom designed power supply unit keeps the outlet available for other needs, and secures wiring to prevent tampering.

## **Specifications**

#### Electrical

Receiver output power: up to 15W

DC voltage input 24V

Up to 8 spots connected to power supply

Current input 0.7A for 15W output

Operating Frequencies: Ping 178kHz, Switch 200-300 kHz

Built-in protections: voltage, current, thermal, FOD

#### Communication

Communicates with a ZigBee®-to-IP gateway in the venue

IEEE 802.15.4 based RF channels Transmit Power +8 dBm

Includes managed Beacon, Bluetooth 4.1 Transmit Power 0 dBm

Beacon (BLE) services support iBeacon and Eddystone communication protocols

Remote firmware upgrade

# Performance with Powermat 5w ring

(transmitter coil 3mm below surface)

X,Y on charging surface: Ø 30mm

Z above charging surface: 10mm (14mm coil-to-coil)

Charging efficiency: 80% (full alignment)

### **Regulatory Compliance**

CE, ICES, FCC, CSA, KOMINFO

– Radiated and Conducted emissions;
Maximum power exposure; RF Exposure

UL, IEC - Product safety for wireless charging

RoHS, REACH, California OEHHA proposition 65 - Environmental restrictions

#### **Environmental Data**

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

Non-Operating Ambient Temperature: -20 to 80  $^{\circ}\text{C}$ 

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

Non-Operating Humidity: 5% to 95%

#### **Artwork**

Ring marking for alignment

Mounted installation: printed on the inner surface and covered by a PMMA transparent layer during assembly

Sub-surface installation: adhesive label; color can also be customized by surface fabricator (e.g. resin inlay in polymer based solid surfaces)

#### **Mechanical Parameters**

#### **Parameters**

Hole Type

Hole/Cave Diameter

Surface type

Tool

**Top Surface Footprint** 

Bottom Surface Footprint

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LED location

#### Surface-Mounted

Pass through

Ø 2.75" (70mm)

Wood/MDF/Ply, Corian (any polymer-based surface) & Stone Surfaces.

TCT, bi metal, or diamond grit hole saw Hand tool ok (if used with jig)

Horizontal: 3" (76mm) Ø Vertical: 0.063" (1.6mm) above surface

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Width: 3.83" (97.3mm) Length: 7.02" (178.3mm) Thickness: 1.03" (26.2mm)

Bottom protective cover

#### Sub-Surface

Partial Cavity

Thickness above cavity 0.14" (3.5mm)

Ø 2.75" (70mm)

Wood/MDF/Ply & Corian (any polymer-based surface)

CNC / Routing

Charging Spot position marking for alignment

Width: 3.83" (97.3mm) Length: 7.02" (178.3mm) Thickness: 1.03" (26.2mm)

Bottom protective cover

Note: Charging Spots are made for indoor use only and should not be installed in metal cabinets or behind metal enclosures. The distance between a Charging Spot to the next nearest spot should be no more than 65.6' (20m) and no less than 7.87" (20cm). The distance from the table edge should be at least 7" (18cm).

# **Easy Installation**

Below are the high level installation steps for the mounted and the subsurface configurations.











