



ZENS PuK 3 Built-in Wireless Surface Charger

Integrated wireless charging system.

Turn almost any flat surface into a wireless charging spot
with no visual impact on design aesthetics.

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1. ZENS AND WIRELESS CHARGING

Wireless charging is a rapidly growing and widely applicable technology. As Qi has become the global standard for wireless charging, more and more devices have wireless charging embedded.

1.1 About ZENS

ZENS is your innovative wireless charging expert, dedicated to developing state-of-the-art wireless charging solutions. ZENS develops, produces and markets a wide series of wireless charging solutions in any shape or form for both consumers and businesses across all industries. Innovation, ease of use and design are key in all of ZENS's products.

- Pioneer and specialist in wireless charging since 2011
- Joined the Wireless Power Consortium (owners of the Qi standard) as one of its first certified members
- Headquarters located at the High Tech Campus Eindhoven, innovation heart of the Netherlands
- ZENS is active in both the business to consumer and business to business market
- As global category leader, ZENS offers an extensive assortment of over 50 wireless charging products
- ZENS PuK's are compatible with both Apple and Samsung and all other phones that support Qi wireless charging

1.2 Benefits of integrating wireless surface chargers

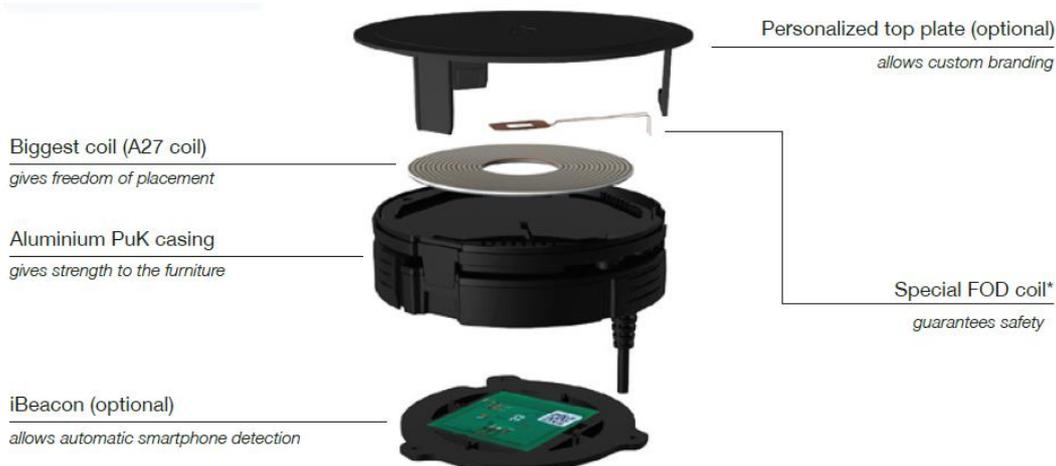
Wireless charging is the future and answers to the fast growing demand for power and charging everywhere. Integrating wireless surface chargers comes with several advantages;

- Ultimate convenience
- User friendly solution
- Easy application to every available flat surface, regardless of its material
- Organized and mobile friendly workplaces
- Eliminates the hassle of dealing with cords and additional adapters
- Improves safety as it eliminates the exposure to wires on and around the worktop
- Effortless fast wireless charging
- Expands the lifetime of the smartphone and micro USB connector

2. PRODUCT DESCRIPTION

The ZENS PuK 3 built-in wireless surface charger makes use of the universal Qi standard for wireless charging. It is equipped with one very large coil which continuously detects a device's signal and starts charging automatically as soon as a Qi device is placed on top of the charger. The ZENS PuK 3 turns almost any flat surface into a wireless charging spot with no visual impact on design aesthetics.

2.1 Exploded View



- Apple and Samsung Fast Charge – allows to fast-charge your device
- Big coil – gives freedom of placement
- Aluminum PuK casing – gives strength back to the furniture
- iBeacon (optional) – allows automatic smartphone detection
- Customized top plate (optional) – allows custom branding and personalization
- Special FOD* coil – guarantees safety

* See page 4 for more information

2.2 Sub-surface installation

The ZENS PuK 3 Built-in Wireless Surface Charger can be installed without being visible at all. With new furniture, an 80 mm wide hole is carefully made from underneath, leaving 3-5 mm thickness in the substrate. The charger is then installed in this space in a unique way, without the need for extra drilling, screws or adhesive. From above, nothing is visible, therefore not effecting the appearance or design aesthetics of the furniture. The innovative design provides additional support from underneath with a lightweight robust aluminum design. A subtle, customized label imprint or sticker can serve to indicate the position of the charging point.

2.3 Surface installation

The ZENS PuK 3 Built-in Wireless Surface Charger can also be installed visibly with a top plate. In an existing desk, an 80 mm hole is carefully made from above using ordinary power tools, within which the charger is placed. By tightening just 2 screws from below, the expanding grips secure the charger in place. The hole is then covered with a top plate that also serves to indicate the position of the charging point. The top plate can be customized according to your wishes.

3. UNIQUE SELLING POINTS

- **Apple and Samsung Fast charge**
The ZENS PuK 3 supports both Apple and Samsung Fast charge.
- **Qi certified**
The ZENS PuK 3 is pending Qi-certification, guaranteeing safety, interoperability and energy efficiency.
- **Foreign Object Detection (FOD)**
The ZENS PuK 3 has integrated Foreign Object Detection (FOD) that is specially designed by ZENS which guarantees safety and protects your credit- and debit cards.
- **Upgradeable with iBeacon**
The ZENS PuK 3 can be upgraded with an iBeacon to allow automatic smartphone detection (e.g. for desk occupancy systems).
- **IP-43 water resistance rating**
The ZENS PuK 3 has the IP-43 water resistance rating, meaning it is protected against direct water sprays. Water falling as a spray at any angle up to 60° from the vertical shall not have a harmful effect.
- **Standard 3 year warranty**
The ZENS PuK 3 has a standard warranty period of 3 years.
- **Charges through 3-5 mm**
The ZENS PuK 3 can charge through 3-5 mm when installed into the material, enabling to charge a phone with (bulky) case or sleeve.
- **Big coil**
The ZENS PuK 3 has a big coil that gives freedom of placement and makes it easy to find the charging spot.
- **Aluminum body**
The aluminum body of the ZENS PuK 3 gives strength back to the furniture and ensures it operates at the lowest possible operating temperature.



4. BENEFITS

The integration of wireless (sub-)surface chargers has many advantages. The ZENS PuK 3 is designed especially to deliver high quality performance and has several distinguishing features that contribute to the ultimate convenience of using wireless charging.

4.1 Benefits ZENS PuK 3

- Can easily be installed thanks to mounting method that simply requires to fasten 2 screws
- Can be applied to almost every available flat surface material (except steel)
- Can be implemented into both new and existing furniture
- Can be installed as surface (visible) and sub-surface (invisible) charger
- Has a top plate that can be custom branded when installed visibly
- Supports Apple and Samsung fast charge
- Fastest response time, starts charging as soon as the device is placed on the charger
- Works with any Qi certified device



5. AREAS OF USE

The ZENS PuK 3 Built-in Wireless Surface Charger can be installed in almost any material and is widely applicable to a wide range of usage situations. It is particularly used in bedrooms, furniture, hospitality, kitchen and the workplace, but continues to expand to other areas of use.



6. PRODUCT DETAILS

6.1 Material

The PuK 3 is composed of high quality material that guarantees its performance.

Aluminum body

The aluminum body of the PuK 3 ensures it uses the lowest possible operating temperature. It also gives back strength to the furniture.

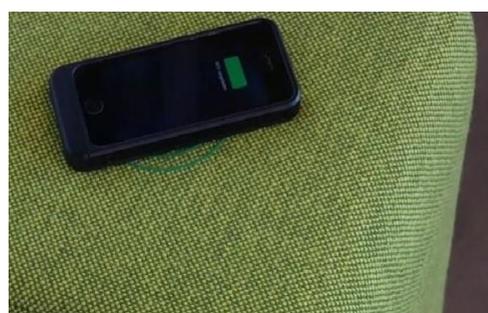
Soft touch top plate

The PuK 3 can be upgraded with a (personalized) soft touch top plate to indicate the charging spot.

6.2 Technical specifications

Transmitter unit		Power adapter	
Input voltage	15 V DC +/- 15%	Input voltage	100 to 240 V AC
Input current	1.5 A	Output voltage	15.0 V DC +/- 5%
Charging capacity	Maximum 15W devices*	Input frequency	50/60 Hz
Switching frequency	110 +/- 125 kHz	Output current	1.6 A DC maximum
Operating temperature	0 to 35 °C	Efficiency level	Energy Efficiency Class V
Storage temperature	-20 to +70 °C	Standby power	< 0.3 W
		Cable length	1.8 m

* Qi certified devices



7. SAFETY PRECAUTIONS

To ensure safety, several precautions have been taken and safety features have been embedded in the PuK 3.

Qi Certification

Products using the Qi standard must be tested rigorously to help ensure safety, interoperability and energy efficiency. Only products that have passed the independent laboratory tests can use the Qi logo and are considered “Qi certified”. The ZENS PuK 3 is pending Qi certification.

Foreign Object Detection (FOD)

Foreign Object Detection (FOD) is an embedded safety mechanism that automatically stops charging if there is interference caused by a foreign object such as metal (e.g. coins, paperclips, bankcards).

FOD prevents the charger to emit unnecessary power and heat that could damage your smartphone or charger. The ZENS PuK 3 has special designed FOD embedded to guarantee safety.

CE/FCC certification

Wireless charging systems must obey a set of rules and regulations related to ElectroMagnetic Interference (EMI), sometimes also called “radio disturbance”, and magnetic fields. ElectroMagnetic Compatibility (EMC) is about conducted and radiated emission. Products have to meet specific EMC standards. ElectroMagnetic Fields (EMF) concerns the exposure of people to electromagnetic fields. Products have to meet specific acceptable limits. These limits have shown to not cause any adverse health effects. The ZENS PuK 3 meet the required standards and limits and are CE/FCC certified.

7.1 Certificates

- Qi certified (pending)
- IP 43 water resistance rating
- CE/FCC certified
- GS (Geprüfte Sicherheit) certified (pending)
- PSE (Product Safety Electrical) certified
- 6 stars cUL and UL certified power adapter