

User Manual
CONTINENTAL
WLC

Wireless Power Charger

WLC-CEM02

1. System description

Continental Wireless Power Charger is developed for automotive applications under the name WLC. It includes one function:

- WPC: Wireless Power Charging

WPC parameters

Parameters	Values
Carrier frequency	126.7 kHz
Frequency shift	+/-6 kHz
Supply voltage	13.5V battery
Voltage supply range	8V < V _{BAT} < 16V
Max. supply power	33W
Operating temperature range*	-40°C < Temp < 85°C
Smartphone operating temperature range	-20°C < Temp < 60°C
Max. Output Power on receiver load**	11W
WPC chipset brand	Renesas
WPC litz coil	Single coil MPA14 according to Qi standard
WPC litz coil gain @ 126.7kHz	-108.3dBi
Dimensions (X/Y/Z in mm)	142 x 91.5 x 23.5
Product weight	150 g
Vehicle fuse protection	10 A

Vehicle installation

Although the WLC module is intended for different vehicles, it is always installed in the vehicle front central console (see an example in Figure 7).



Figure 7. Location of WLC inside the vehicle

The installation with the **shortest distance to the human body** is illustrated in Figure 8: **11.26cm**.

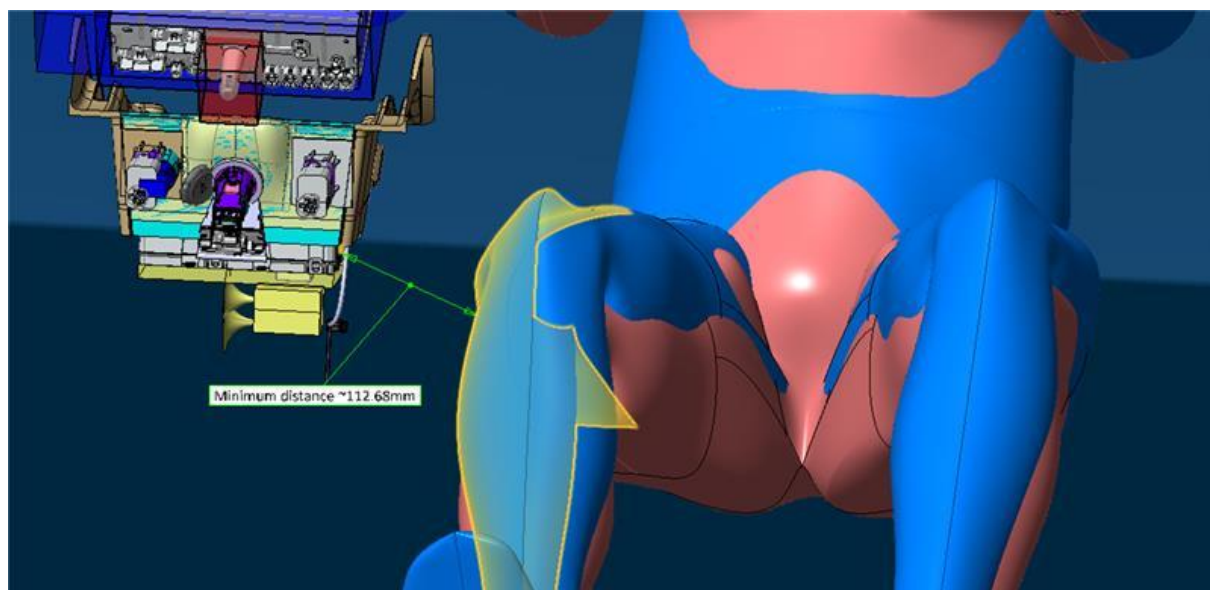


Figure 8. Shortest distance to human body

Warning statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference

received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void

the authority to operate equipment. This device and its antenna must not be co-located or operating in

conjunction with any other antenna or transmitter.

This device complies with Industry Canada's licence-exempt RSSs. 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. Le présent appareil

est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de

brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le

brouillage est susceptible d'en compromettre le fonctionnement