



MC Gateway

System Description and Technical Specifications

The MasterConnect Gateway unlocks the next level of connectivity for MasterConnect lighting systems. It connects your lighting system to the cloud for automatic energy reporting across several MasterConnect networks. One gateway can be connected to a group of luminaires by means of Zigbee, and via internet the data from several gateways come together in the cloud. Next to that it enables new monitoring and light control features. The gateway is commissioned via smartphones using the Philips MasterConnect app (available in Google and Apple app stores), resulting in easy and time efficient set up.

Product features

Connectivity

- The gateway links your MasterConnect system to the cloud.
- The gateway connects to luminaires via ZigBee.
- 2.4GHz ZigBee mesh networking technology.
- Reliable and secure wireless communication, nominal range 20m.
- Easy commissioning via MC app and Bluetooth.

Installation

- The gateway comes with a power adapter for US, EU and UK mains voltages.
- Mounting:
 - placement on horizontal surface
 - fixation on a wall using two screws
- Indoor use

Energy reporting

- Automatic energy reporting across several groups.
- Assigned users receive energy reports via e-mail.

Security

- Wireless communication between luminaires and gateway is encrypted.
- Communication between gateway and IoT cloud is encrypted.

Reliability

- Reliable operation between 0°C and +40°C ambient temperature.

Certificates

- CE, UKCA, CB, RED

MasterConnect System

https://www.lighting.philips.com/prof/led-electronics/masterconnect-system/LEDELECTRCONN_CA/category



MC Gateway

Product data

Physical Information

Overall Dimensions	116mm x 116mm x 32mm
Net Weight per Piece	195.5 g with US power adapter, 214 g with UK power adapter, 212.5 g with EU power adapter

Electrical Information

Input Voltage	100-240Vac, 50/60Hz to 5V power adapter
Nominal Power Consumption	1.1 W
LAN 1, connection to iOT cloud	Shielded RJ45 connector, indicator LED's: yellow activity, green link
LAN 2, reserved for future use, not connected	Shielded RJ45 connector, indicator LED's: yellow activity, green link

Environment & Approbation

Operating Ambient Temperature Range	0 °C to 40 °C
Operating Humidity	0 – 80% non condensing
Storage Temperature	-40 °C – 80 °C
Storage Humidity	10 – 90% non condensing
Ingress Protection	IP20
Agency Approbations	CB
Declarations of conformity	CE, UKCA, RED
Applications	Indoor (no protection against aggressive chemicals)
Lifetime	100,000 hours
Warranty	5 years

Other

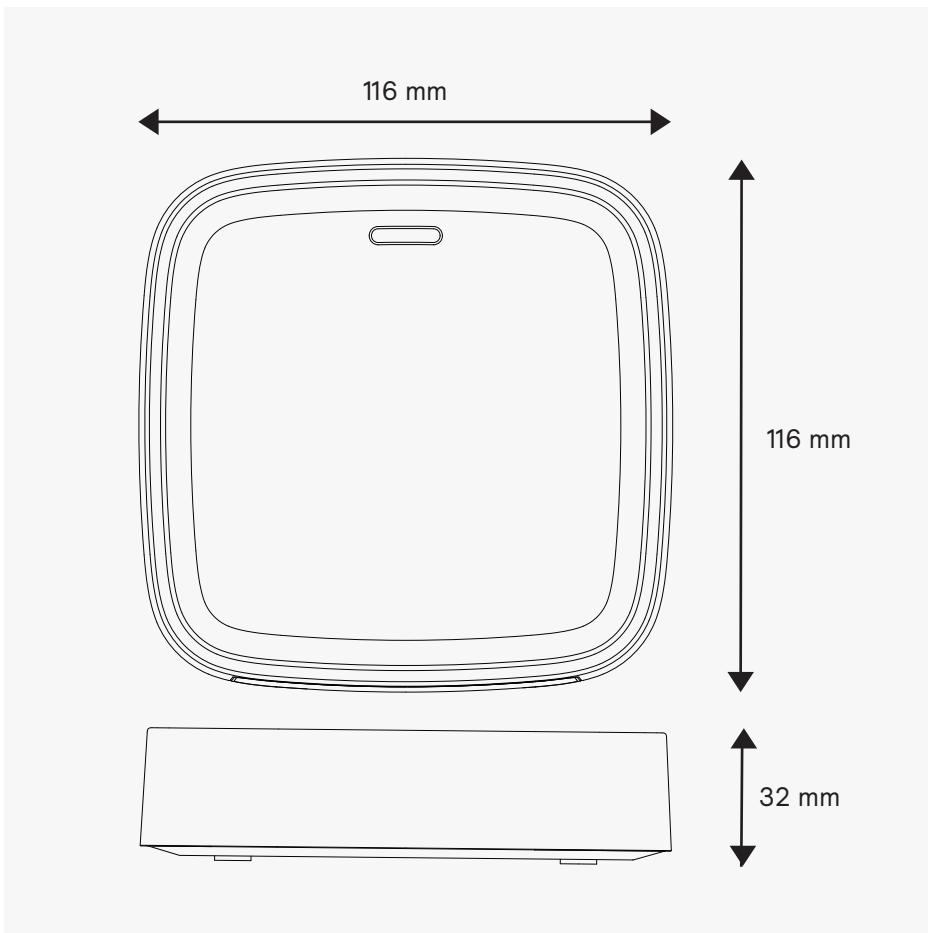
Wireless protocol	2.4 GHz, IEEE 802.15.4, ZigBee 3.0, BLE
Encryption	AES – 128, ECDH, ECDSA
Status Indicators	Red: Not commissioned Purple (blinking): identifying Blue: Commissioned successful as standalone, connected with Zigbee network Orange (blinking): Connection to Zigbee network lost Green: commissioned successfully, connected to a Zigbee network and cloud.
WLAN	2.4GHz and 5.0 GHz, for future features, not activated
Max Distance gateway-to-luminaire	20 m line-of-sight to first luminaire
Field Configuration	via BLE, parameters set via Philips MasterConnect app
BLE range for user to gateway	10 m line-of-sight
Max. number of devices connected to GW	120 (with devices on FW 2 or FW 3)

Ordering Information

Commercial product name	Colour	Description	EOC	12NC	MOQ
MC Gateway	White	Gateway	872110311454900	9290 038 77406	1

MC Gateway

Dimensional drawing



MC Gateway

Safety warnings and installation instructions

Warnings

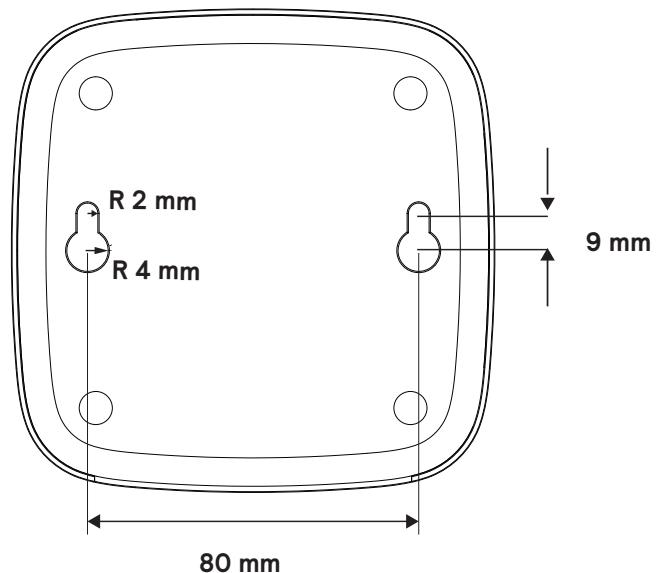
- Do not use damaged products
- Do not use the product with damaged wires

Mounting

- Place the gateway on a horizontal surface (e.g. ceiling)
- Or mount the gateway on a wall:
 - Use two screws at least 6 mm long with thread diameters of no more than 4 mm and head diameters of no more than 8 mm to affix the gateway to the surface. They shall be spaced 80 mm apart.
 - Place the gateway onto the screws

Note:

- Don't place the gateway in a metal case or on a metal construction that can impair RF performance.
- Mount it out of childrens reach (e.g. above 2m)

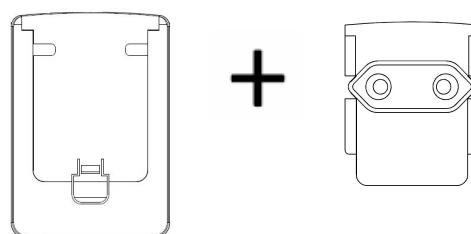


Configuration of the power plug

The power adapter can be used for connection to US, EU and UK power plugs, but must be configured.

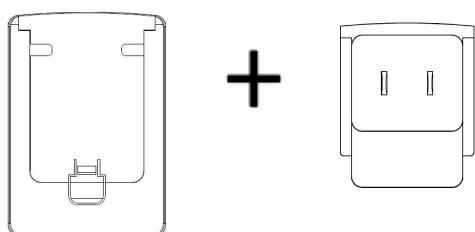
Configuration for EU

- Slide the EU adapter into the base part



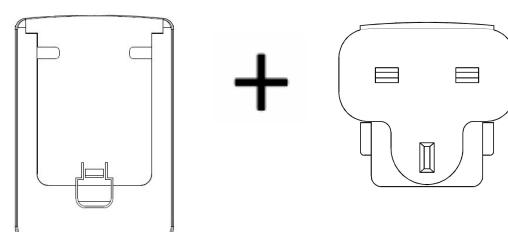
Configuration for US

- Slide the US adapter into the base part



Configuration for UK

- Slide the UK adapter into the base part

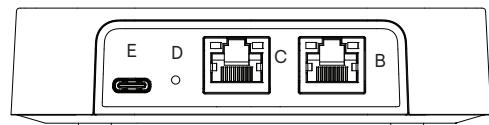
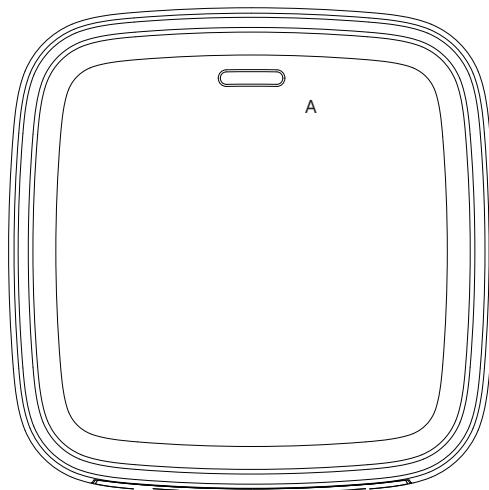


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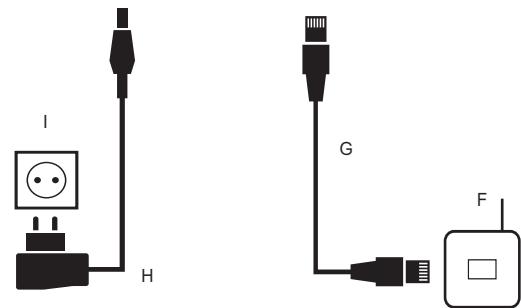
Installation instructions

Connecting

- Connect LAN 1 port to internet for connection to the cloud
- Connect the power supply



- A) Status LED
- B) LAN 1, for connection to cloud
- C) LAN 2, for future features, not connected
- D) Reset button
- E) USB-C Power adapter
- F) Network connection
- G) Ethernet cable
- H) Power supply
- I) Power socket



Commissioning

- Download the MasterConnect app from Google Play store or Apple App store (version 2.5 or newer) and install it.
- Setup your MasterConnect system with lights. See the Philips MasterConnect app installer manual at https://www.lighting.philips.com/prof/led-electronics/masterconnect-system/masterconnect-sensors/LP_CF_9218075_EU/family.
- Add the gateway in your MasterConnect project.

Reset

- The user can trigger a reset by using a paperclip and pressing the pinhole button on the powered device.
- Soft-Reset: Reset some parameters to factory default and reboot
Button press longer than 2 sec but shorter than 5 secs
- Hard-reset: Reset all parameters to factory default and reboot
Button press longer than 10 secs but shorter than 20 secs

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Radiation exposure and safety

Radiation exposure statement

ISED Radiation Exposure Statement

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

This is a non-consumer product.

This product is intended for commercial use only.

Coin battery statement

Do not ingest battery, Chemical Burn Hazard

This product contains a coin or button cell battery. If the coin or button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Disclaimer

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Data subject to change