MC Gateway

MasterConnect

9290 038 77406

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

Works with PHILIPS MasterConnect

MC Gateway

Product data

Physical Information	
Overall Dimensions	116mm x 116mm x 32mm
Net Weight per Piece	215.5 g with US power adapter, 225.4 g with UK power adapter, 222.2 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

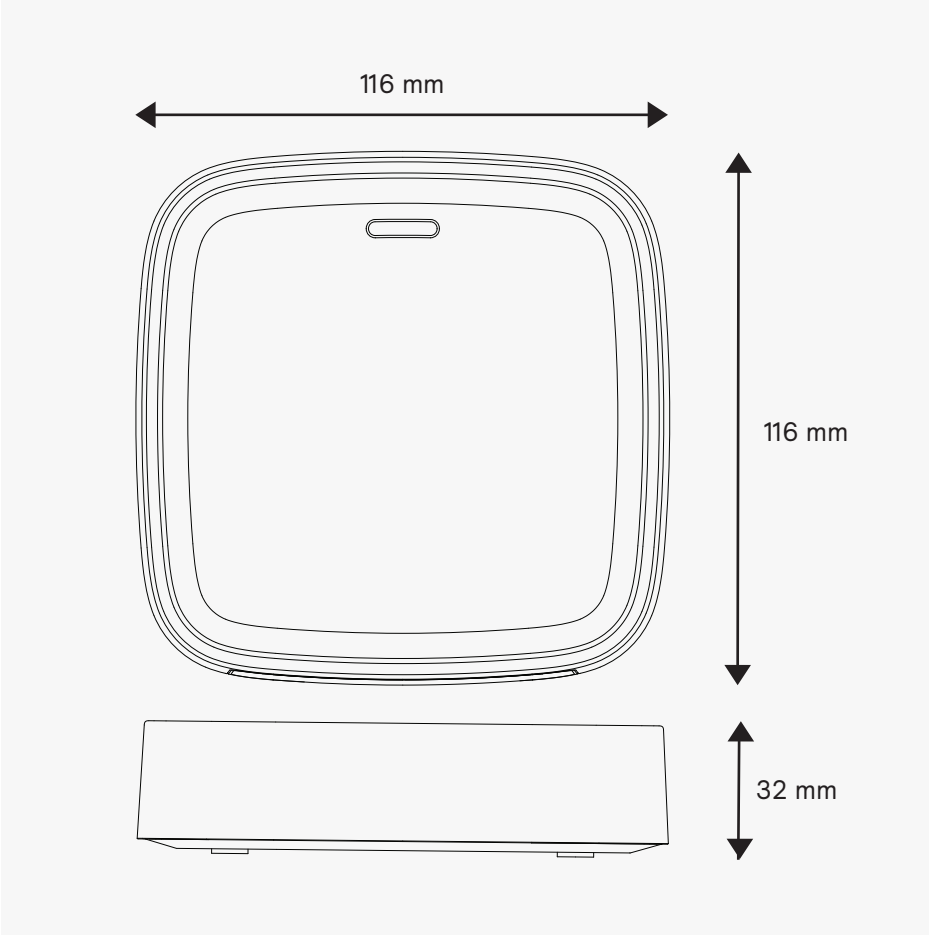
Other	
Wireless protocol	2.4 GHz, IEEE 802.15.4, ZigBee 3.0, BLE
Encryption	AES - 128, ECDH, ECDSA
Status Indicators	Red: Not commissioned Purple (blinking): identifying Blue: Commissioned successful as standalone, connected with Zigbee network Orange (blinking): Connection to Zigbee network lost Green: commissioned succesfully, 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

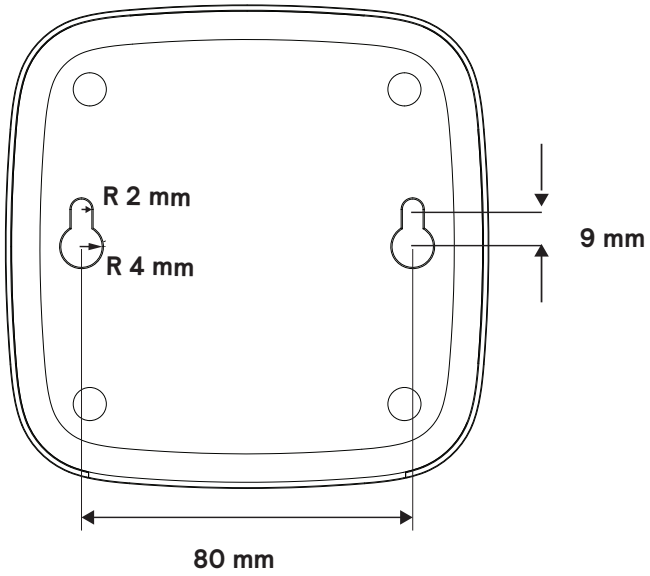
Safety warnings and installation instructions

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:

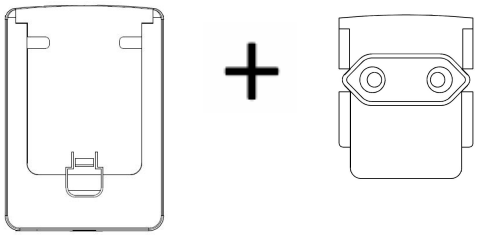
- **Don't place the gateway in a metal case or on a metal construction that can impair RF performance.**
- **Mount it out of childrens reach (e.g. above 2m)**

Configuration of the power plug

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

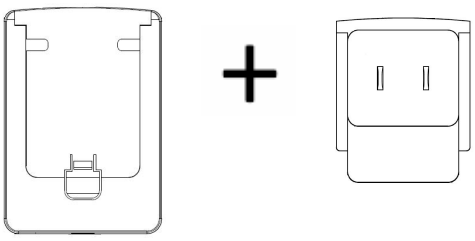
Configuration for EU

- Slide the EU adapter into the base part



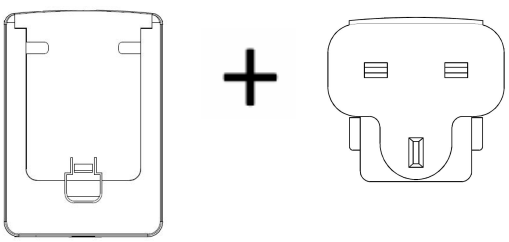
Configuration for US

- Slide the US adapter into the base part



Configuration for UK

- Slide the UK adapter into the base part

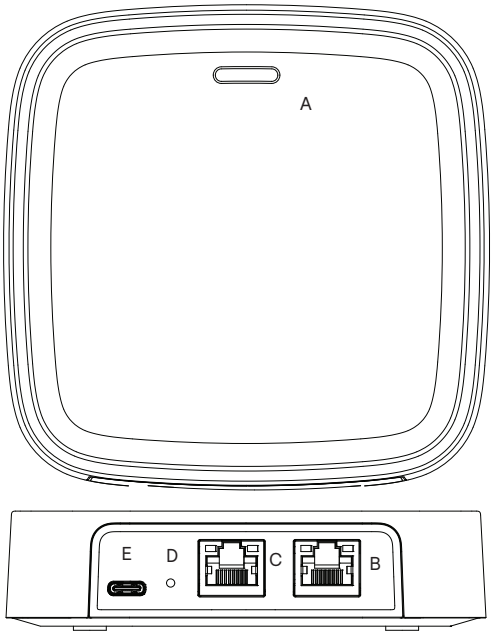


MC Gateway

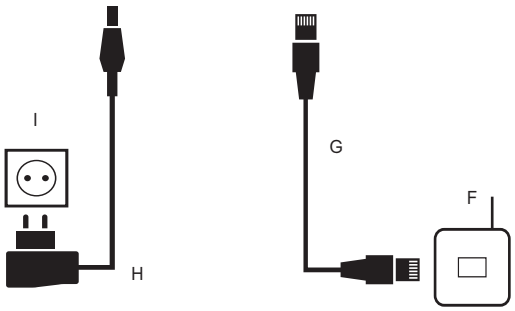
Installation instructions

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



In case connection to the buildings internet is prohibited because of security reasons consider to use a 4G router with SIM card to set up an independent internet connection.

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

MC Gateway

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.

MC Gateway
MasterConnect

Disclaimer

Note that the information provided in this document is subject to change.

This document is not an official testing certificate and cannot be used or construed as a document authorizing or otherwise supporting an official release of a luminaire. The user of this document remains at all times liable and responsible for any and all required testing and approbation prior to the manufacture and sale of any luminaire.

The recommendations and other advice contained in this document, are provided solely for informational purposes for internal evaluation by the user of this document. Signify does not make and hereby expressly disclaims any warranties or assurances whatsoever as to the accuracy, completeness, reliability, content and/or quality of any recommendations and other advice contained in this document, whether express or implied including, without limitation, any warranties of satisfactory quality, fitness for a particular purpose or noninfringement. Signify has not investigated, and is under no obligation or duty to investigate, whether the recommendations and other advice contained in this document are, or may be, in conflict with existing patents or any other intellectual property rights. The recommendations and other advice contained herein are provided by Signify on an “as is” basis, at the user’s sole risk and expense.

Specifically mentioned products, materials and/or tools from third parties are only indicative and reference to these products, materials and/or tools does not necessarily mean they are endorsed by Signify. Signify gives no warranties regarding these and assumes no legal liability or responsibility for any loss or damage resulting from the use of the information thereto given here.

03/2026
Data subject to change