Smart!

Smart Weatherproof Socket
Installation Guide

Control your Power by:

Mobile   Voice   Touch

- Control Power Anywhere
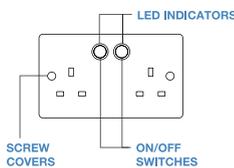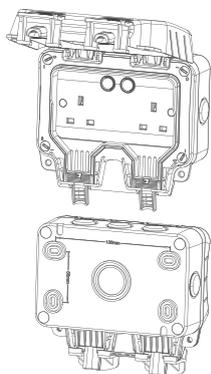- On/Off Power Control
- Timer & Scheduling

Installation Advice - Important
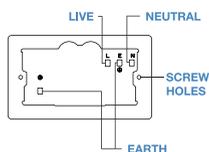
Safety Instructions

Please read carefully before installation.

1. An outdoor location should be chosen ensuring adequate access to a mains supply circuit. The circuit MUST be protected by an appropriate fuse, circuit breaker or RCD (Residual Current Device) in accordance with current IET wiring regulations.

2. Where conduit is used for cable runs, water condensation MUST be prevented from collecting inside the unit & conduit. Drain holes MUST be drilled out (see Installation Instructions)

3. If metal conduit is used, earth continuity across the conduit must be maintained using appropriate connections (not supplied). An earth terminal in the Rear Box is provided as required.

4. Where outdoor cable runs occur, ensure cable recommended for outdoor installations is used. In general, rubber insulated cable & plastic M20 cable glands can be used. Alternatively standard flat PVC twin & earth mains cable inside 20mm plastic or metal conduit may be used. Where necessary, SWA (Steel Wire Armoured) cable with metal cable glands should be used.
The outdoor use of unprotected flat PVC insulated cable is NOT recommended.

5. To ensure continued safe & proper weatherproof protection, the unit MUST NOT be left with the cover raised open or the catch left unlocked. Unused cable entries MUST have have blank plugs fitted.

Product Overview

LED INDICATORS
SCREW COVERS
ON/OFF SWITCHES
LIVE
NEUTRAL
SCREW HOLES
EARTH

The enclosure is IP66 rated in use, which means when the front cover is closed the seal construction provides protection from direct strong jets of water, and the ingress of dust.

Installation Instructions

Before commencing work always isolate the power at the consumer unit/fuse box.
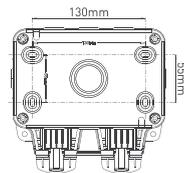
1. The unit should be mounted on a clean, rigid vertical surface suitable to accept screw type fixings. Surface should be reasonably flat as unevenness could cause product damage or affect operation.
Before installation ensure the socket location has adequate WiFi coverage.

2. Remove Front assembly from Rear Box.

3. For cable entry, decide if conduit is being used & entry positions.
For side, top or rear entry the lowermost drain hole position MUST be drilled out using a 5mm drill. ONLY ONE drain hole position must be drilled.
For bottom entry a drain hole MUST NOT be drilled in Rear Box, but a drain hole MUST be drilled at lowermost point of conduit run.
For rear entry, drill/cut the appropriate size hole. For extra sealing protection, channels around knock-out and fixing holes are provided to accept a bead of sealant (not supplied) when fixing to mounting surface.

Note – The drilling of the drain hole or removing a knock-out will reduce the IP rating of the product.

4. Mount the Rear Box using No.8 screws in all four, or at least two diagonal positions on fixing centres shown. The fixing holes are slotted to enable some rotation adjustment if required. Fit supplied Bungs over all used fixing screw positions to seal aperture recesses.

5. Make cable entry into rear box as required. Only remove the blanking plugs for positions used. Ensure adequate excess lengths of cable for connection to the Socket. Install & seal all cable glands & conduit to Manufacturer's instructions.
To install, remove the blanking plug from rear box, and fit gland or conduit. Ensure the gland or conduit and cable entry are sealed with a non-setting sealant.

6. Offer up Front Assembly to Rear Box to determine final lengths of cables & cut to suit. Strip outer insulation as required & then trim insulation on individual wires 10-12mm to expose conductor ends.

130mm
55mm

Safety Warning

For your safety, this product must be installed in accordance with local Building Regulations. **If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme.** Further information is available online or from your Local Authority.
Please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure the supply is switched off at the mains. Either by switching off the consumer unit or by removing the appropriate fuse or turning off MCB (trip). Wiring should be in accordance with the latest edition of the IET regulations (BS 7671).
To prevent fire hazard always use cable of the correct rating & type for the application.
Warning do not exceed the load rating of this device as stated on the rear of the product.

Note - As from 1st April 2004 new colour codes for hard wire installations were introduced.
EARTH = Green/Yellow Sleeving
NEUTRAL = Black (pre Apr 04) / Blue (after Apr 04)
LIVE = Red (pre Apr 04) / Brown (after Apr 04)

E
N
L

If installed correctly BG Electrical Weatherproof products provide an IP66 level of protection, this means that the sealed construction provides a very high level of protection against the ingress of both water & dust. The cover will seal regular sized plugs, however the cover must be closed and secured when in use to provide the IP rating protection. Do not allow water to enter the socket with the cover open.

Smart Socket Setup Instructions

Install The BG Home App

Download the BG Home App for your Android or iOS device.

Download on the App Store
Scan the QR code below

GET IT ON Google Play
Scan the QR code below

Account Creation

Follow the on-screen advice to set-up an initial account.
If you have a BG Home account already skip to "Add Device".

Power Up Your Socket

Please follow the in-app instructions. Alternatively, follow the steps below:
On the App press '+' (located at the top-right of the home screen), and select 'Add device'. On the next page, browse to '**WiFi equipment**' -> '**Power**'-> '**Double Socket**', until you reach the screen shown.
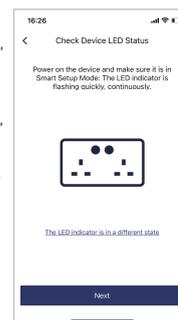Ensure that your Smart Socket is connected to the power supply as per the 'Wiring Instructions. After the initial power up both switch LED indicators will illuminate RED, quickly and continuously, and the socket will be ready for setup. If they are not, press and hold the left button for 5 seconds until they are.
Follow the on-screen instructions to set-up your device. Please make sure your phone is connected to 2.4GHz WiFi so that your device can be discovered and set-up successfully.
Once set up your mobile device will indicate a successful connection and the Red indicator on the socket will turn off.

You can now plug in the device you would like to control.
If these setup procedures fail, follow the "**AP Config**"setup and follow the step by step instructions on the App.

Check Device LED Status
Power on the device and make sure it is in Smart Setup Mode: The LED indicator is flashing quickly, continuously.
The LED indicator is in a different state
Next

Connecting Additional Smart Devices

To connect additional BG Home Smart Devices, please follow the steps below:
1. Connect and power up the device.
2. Ensure the RED LED is flashing quickly, continuously. If it is not, press and hold the button for 5 seconds.
3. On the App press '+' (located at the top-right of the home screen), and select 'Add device'.
4. On the next page either: a) wait for the device to appear automatically after a few seconds and follow the on-screen instructions to add the device or b) select 'WiFi equipment' repeat the instructions from section 3. Please note that option a) will add the device as a sub-device to the first device.
5. Repeat the above for additional BG Home Smart Devices.

7. Connect the wires to the correct rear terminals.
Connect LIVE wire to BROWN LIVE (L) terminal
Connect NEUTRAL wire to BLUE NEUTRAL (N) terminal
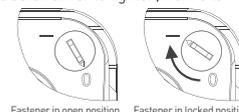**Connect EARTH wire to GREEN/YELLOW (E) terminal**

NOTE
(1) The colours of the wires will be dependent on the type of cable used.
(2) It is possible to remove the socket from the Front Assembly to aid wiring by releasing the retaining clips on the rear.

8. Tighten terminal screws securely (Do not over tighten).

9. Any earth connections MUST be made & continuity maintained. All bare earth wires must be sheathed with green/yellow sleeving. Note – the sockets have two linked earth terminals but only one needs to be used for the installation.

10. After wiring Socket, refit Front Assembly to Rear Box, secure using the quick fix fasteners. Turn 150° clockwise with a suitable flat bladed screwdriver to tighten, from 0 to I – DO NOT OVER TIGHTEN.

Wiring Diagram

FROM SUPPLY
LIVE
EARTH
NEUTRAL
L   E   N
TO FUNCTIONAL EARTH
TO MOUNTING BOX EARTH TERMINAL
E

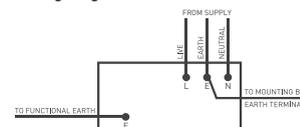Fastener in open position   Fastener in locked position

11. Once the installation has been completed correctly, replace the fuse/reset MCB (trip), switch the power back on at the consumer unit and test.

12. For security to prevent unwanted tampering of the socket, the cover has two lug features with 6mm holes, this will accept a padlock or similar locking security device (not supplied).

Power Control
Power control at each socket can be manual or 'smart'
The power button will illuminate **BLUE** for ON.

Indicator Brightness Control
The intensity of the power indicators can be adjusted. Press and hold button B for 5 seconds. The indicator will illuminate **BLUE** and it will enter the brightness adjustment mode. When the brightness has reached the desired level release the button.

Getting the Most out of your BG Home Sockets
Smart sockets do more than enable you to turn sockets on and off with an App – you can set timers, configure scenes, set a parental lock, control these with your voice and sync up with other smart devices in your home using IFTTT.

Device Menu Screen

Setting Timers
Set up timers so your device will turn on and off at specific times. Save energy by turning sockets off whilst you're at work, turn the lamp on or off at a certain time of day, or set the slow cooker to come on at lunch time so your food is ready to eat when you get home!

Set a Delay
Set a delay time for your sockets to turn on or off after a set length of time. Ideal for sockets where you plug in devices like hair straighteners or heaters for added safety, and for charging your mobile phone so this turns off once it has reached a full charge.

Creating Scenes
You can add many different scenes to suit your lifestyle to further automate your sockets. You may want a number of sockets to turn on or off together without having to operate them all independently. You could set a night-time scene so all lamps turn off and your bedside socket turns on ready to charge your phone, create a 'goodbye' scene for when the house is empty or a 'welcome home' scene so everything is just how you want it when you get home.
Go to the 'Scenes' menu on the bottom of the Home screen, select + from the top left corner of the scenes screen and create your custom scene.

Manage Homes
If you have more than one property with smart sockets installed, be it home or office, you can create a separate 'home' for each of these and manage these through the 'Me' menu. Other homes that you have been invited to will also appear in this menu.
You can switch between properties in the BG Home App control screen by clicking on the home name at the top of the screen, and switching to the home you want to manage.

Random Function
Turn lamps on and off at random times to imitate home occupancy when you're away for added security.

Invite others to join your home
You may want other members of your household to be able to operate sockets with their own phone or tablet. No problem! You can invite a new member from the BG App Home screen by pressing the + icon at the top of the screen.

Set a Parental Lock
The parental lock allows you to de-activate the active buttons so these cannot be turned on or off at the wall, and prevent members that you have invited within the app from turning sockets on or off, or changing any of your set timers or scenes. This is ideal for sockets which you want to behave in a routine way, and to prevent children turning devices on and off when you don't want them to.
To turn on the parental lock, select 'function set' from the ... menu, and toggle the parental lock on or off as required.

Works with Siri Shortcuts

If you're an iOS device user, you can control your devices using your iPhone, iPad or Apple Watch.

To control an individual device:
1. Select the device from the home screen.
2. Press on the ... menu in the top right corner and select 'General'.
3. Select 'Add to Siri' and create your Siri shortcut.

Add a scene to make a number of devices change state with one instruction. You will need to create your scene before adding this to Siri.
1. Select 'scenes' at the bottom of the home screen.
2. Select 'Add to Siri'.
3. Choose a pre-configured scene and enter the custom phrase you want to use to activate the scene.

WORKS WITH alexa

If you're new to Echo, it's a super smart speaker from Amazon that responds to your voice.
Once you've bought Amazon Echo and downloaded the BG Home App, you'll just need to enable....

1. Enable the BG Home App
In your Alexa app, tap Skills in the menu and search for BG Home. Tap Enable.

2. Link Account
Enter your BG Home App username and password and follow the onscreen instructions.

3. Talk to Alexa
Now the fun part. Ask Alexa to control your BG Smart Home device.

works with Hey Google

Now you can use Google's voice-activated speaker to control your Smart Home sockets and adaptors. With the Google Assistant, you can turn on your lights without pressing a button!

1. Setup
Start by getting the Google Home app and setting up your Google Home if you have not done this already.

2. Add BG Smart Home Action
In the Google Home app tap the menu icon and select Home Control. Then tap the + button to see a list of Actions tapping BG Home to select the Action.

3. Link your BG Home Account
Now follow the in-app instructions to link your BG Home App account. Once complete you'll be able to say 'Ok Google, turn my lamp on'.

Works with IFTTT

IFTTT helps you connect all of your different apps and devices. When you sign up for a free account, you can turn on Applets that help your apps and devices work together to do specific things they couldn't do otherwise.
Set up widgets, to turn devices on and off without the need to open the App, turn devices on or off at sunrise and sunset, and use geo-location to turn devices on or off as you approach or leave home.
You can also use IFTTT to synchronise your sockets with smart home devices from other companies, for example you could set a radio plugged in to your smart socket to turn off if your Ring doorbell is pressed, or turn on lamps when your unlock your smart lock that is connected with Samsung smart things - The possibilities are endless!

Technical Information

Voltage : 240V ac	Wire IEEE Standard : Wi-Fi 2.4GHz b/g/n	
Frequency : 50/60Hz	Terminal Capacity : 3 x 2.5mm², 3 x 4mm², 2 x 6.0mm²	
Max Power: 13A 3,120W		

Batch Code Explanation

yyWxx: Manufacturing date code; year of manufacturing (yy) and week of manufacturing (Wxx)

Insulation Testing

This socket outlet is designed to withstand insulation resistance testing at 500V as defined by BS1363-2.
• Perform insulation test between Line & Neutral at 250V.
• 500V test may be performed between Line & Earth, Neutral & Earth.
  Or,
• Disconnect all Neutral connection in the socket and connect into terminal block before replacing the socket prior to test.

Address/Helpline

If you need further technical assistance you can get in touch with our Technical Helpline on:
+44 (0)3300 249 279
technical.support@bgelectrical.co.uk

Luceco PLC
Stafford Park 1
Telford TF3 3BD
ENGLAND

(EU) Luceco SE
C/ Bobinadora 1-5
08302 Mataró
SPAIN

Care

This BG Electrical Nexus Storm Weatherproof accessory is made from polycarbonate material that is durable with a high impact resistance. During the life of the product any cleaning should be carried out with a damp cloth using a mild detergent & warm water.
DO NOT USE solvent based cleaners as these may cause damage.

Environmental Protection

This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

UK DECLARATION OF CONFORMITY

UK DECLARATION OF CONFORMITY
This declaration has been issued under the sole responsibility of the manufacturer.
Product
• Smart Weatherproof socket (WP22/HC) • Type / batch or serial number range 23W02 to 25W02
Name and address of the manufacturer or his authorised representative:
Luceco plc Luceco UK Ltd: Building E, Stafford Park 1 Telford, Shropshire TF3 3BD, UK
The object of the declaration is in conformity with the relevant Union harmonisation legislation.
Radio Equipment Regulations 2017 as amended The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended
References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

BS1363-2:2016+A1:2018 EN 60669-2-1:2004+A1:2009+A12:2010 EN IEC 62311:2020 BS EN IEC 62311:2020	EN 300 328 V2.2.2 EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 61000-6-1:2019	EN 61000-6-3:2007+A1:2011

Signed for and on behalf of Luceco UK Ltd
Name: David Cleaver
Position: Senior Product Manager
Signature:
On: 11/1/2023

EU DECLARATION OF CONFORMITY

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This declaration has been issued under the sole responsibility of the manufacturer.
Product
• Smart Weatherproof socket (WP22/HC) • Type / batch or serial number range 23W02 to 25W02
Name and address of the manufacturer or his authorised representative:
Luceco plc, Luceco Southern Europe, S.L. C/ Bobinadora 1-5 08302 Mataró Barcelona (SPAIN)
The object of the declaration is in conformity with the relevant Union harmonisation legislation.
2014/53/EU Radio Equipment Directive 2011/65/EC, 2015/863/ EU Directive RoHS Restriction of the use of certain hazardous substances in electrical and electronic equipment
References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

BS1363-2:2016+A1:2018 EN 60669-2-1:2004+A1:2009+A12:2010 EN IEC 62311:2020 BS EN IEC 62311:2020	EN 300 328 V2.2.2 EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 61000-6-1:2019	EN 61000-6-3:2007+A1:2011

Signed for and on behalf of Luceco SE S.L
Name: David Cleaver
Position: Senior Product Manager
Signature:
On: 11/01/2023