

Connect Mesh 2 Channel Interface
Version 2.0

en



732.28.427

HDE 27.07.21

1. Change history

en

Version	Date	Changes
1.0	06/2020	Initial Documentation
2.0	05/2021	Added new functions

Table of Content

1. Change history	2
2. Connect Mesh 2 Channel Interface	4
2.1. General information	4
2.2. Setup	4
2.3. Switching a group on/off	4
2.4. Dimming	5
2.5. Update Mode	5
2.6. Reset	5
2.7. Status LED	5
3. Installation Guidelines	6
3.1 General Information	6
3.2 Step-by-step Procedure	6
3.2.1 Switch Input	6
3.2.2 Bridge Wire & Power Supply	7
3.2.3 Output Port	7
3.2.4 Final Connection – 2 Channel Interface	9
4. List of compatible Switches	9

2. Connect Mesh 2 Channel Interface

2.1. General information

The Connect Mesh 2 Channel Interface can be connected to the existing electrical installation. This allows it to add to your Bluetooth® Mesh Network. The interface offers consumer a possibility of switching an output (ON/OFF) and reading in 2 key signals at the inputs. As delivered, there is no connection between the output and the inputs. This only has to be created by programming in the app, if desired.

With Bluetooth® Mesh, several Bluetooth® devices are combined to a meshed network. This means that each device (node) in the network is connected to one or more devices and can communicate. Devices that belong to a network work even if they are not in direct range of one another. It just has to be ensured that a member of the network is within range to forward the data packages.



[Image 1]

2.2. Setup

IMPORTANT

The connection may only be carried out by a Professional electrician. For details on the connection, please refer to the mounting instructions.

After the power supply is switched ON, the status LED will start blinking. Afterwards, the device can be provisioned as described within the Connect Mesh App.

2.3. Switching a group on/off

If the Connect Mesh 2 Channel Interface is added within the Häfele Connect Mesh App, there will appear two different devices in your device list. One light (the light you connected to the Output port) and one switch device (which represents the switches you connected to the sensor ports). Both switches can be added to an individual group to toggle the group on and off. In addition, scenes within groups can be triggered.

2.4. Dimming

If the inputs of the Connect Mesh 2 Channel Interface are added to a device group, you can use it to dim the brightness of the light. By keeping the switch pressed, the light will start getting brighter. Release the switch press at a certain level of light brightness to set it. The lights will lower their brightness until they switched off completely.



IMPORTANT

The light which is connected to the Interface output cannot be dimmed, but only switched ON and OFF.

2.5. Update Mode

In case the firmware is outdated, the user will be notified in the Connect Mesh App. Then the user can start and perform the firmware update of the mesh device. More information in the specific *Häfele Connect Mesh App*.

Option 1: Update via App

If the Mesh device is provisioned, the update can be done by:

1. Click on Mesh device and click on edit icon and scroll down to the bottom of the page. You can find the "Update Device icon".
2. Click on this icon to update the Firmware.

Option 2: Manual Update via Power On/Off

1. Connect the Mesh device into Power, the Status LED will be blinking .
2. Switch ON/OFF your Connect Mesh 2 Channel Interface 4 times at consistent intervals of 2 seconds each. (Attention: Wait until the red status led is off, before switching ON again.)
3. The status LED will start blinking faster to signify the device is in Update Mode and can be updated in the Häfele Connect Mesh App.
4. Press "Menu" icon, click on "Settings" and click on "Extended Settings" and then click on "Search device in Update Modus". The connected Mesh device will be displayed. Select the Mesh device to start the Firmware Update.

2.6. Reset

Option 1: Reset via App

If the Mesh device is provisioned, the reset can be done by:

1. Click on Mesh device and click on edit icon and scroll down to the bottom of the page.
2. You can find the "Delete Device" icon.
3. Click on this icon and select "Reset" option to reset the mesh device.

Option 2: Manual Reset via Power On/Off

1. Switch ON/OFF your Connect Mesh 2 Channel Interface 8 times at consistent intervals of 2 seconds each. (Attention: Wait until the red status led is off, before switching ON again.)
2. The Mesh device will be reset and ready for Provisioning again.

2.7. Status LED

Status LED Behaviour	Meaning
Off	The Connect Mesh 2 Channel Interface is either switched OFF or check your connections again.
Blinking	The Connect Mesh 2 Channel Interface is in provisioning mode and is ready to be added to an existing BLE Mesh network.
On	The Connect Mesh 2 Channel Interface is in normal operation mode
Fast Blinking	The Connect Mesh 2-Channel Interface is in OTA Update mode and it will remain in OTA update mode for 60 seconds or until the power is interrupted. (Note: Led will blink faster than unprovisioned state)

3. Installation Guidelines

3.1 General Information

Connect Mesh 2-Channel Interface provides following IN/OUT ports:

- 1x Power Supply Input for mains voltage (80-240V)
- 1x Switched output for switching mains voltage to a device
- 2x Inputs to read a switched mains voltage signal

Output Port:

- Voltage – depends on input Voltage. Here you can connect any device with a mains voltage e.g. a socket or a luminaire. Be aware of inductive loads or devices with high start-up power may destroy the device.
- Maximum allowable Power = Voltage * 5 A;
 - In case of 80V, maximum allowable power is 400W.
 - In case of 240V, maximum allowable Power is 1200W.
- This Output can be only switched ON/OFF; cannot be dimmed.

Input Channels:

- This Input channels is independent of Output. You can use either 1 input or 2 input channel.
- These ports can be connected to an external 2-way Push switch.
- 2-way Push-Switch is compatible but Normal Switch is not compatible.
- These 2 Channels can be used to control the Output and Lights connected to a Häfele Connect Mesh 6 way distributor.
- Lights connected to Connect Mesh 6 way distributor are dimmable.

3.2 Step-by-step Procedure

In this document, we explicitly provide step-by-step procedure to install a Connect Mesh 2-Channel Interface with a GIRA Switch. In this case, we used GIRA 015500 2-way push switch as an example. You can also use any similar type of 2 way push switch.

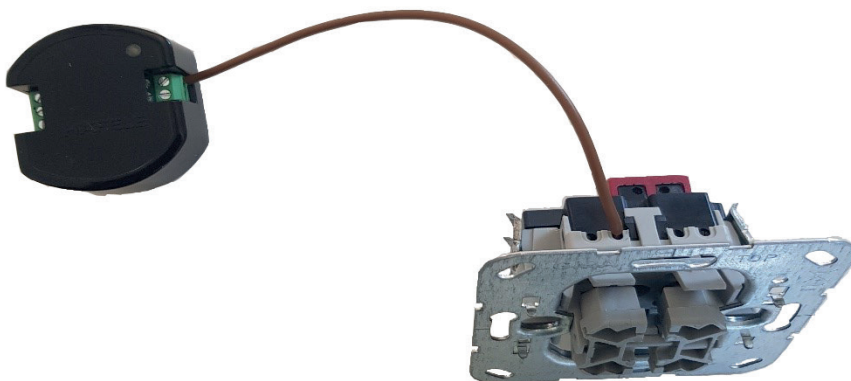


IMPORTANT

The connections may only be carried out by a Professional electrician. For details on the connection, please refer to the mounting instructions

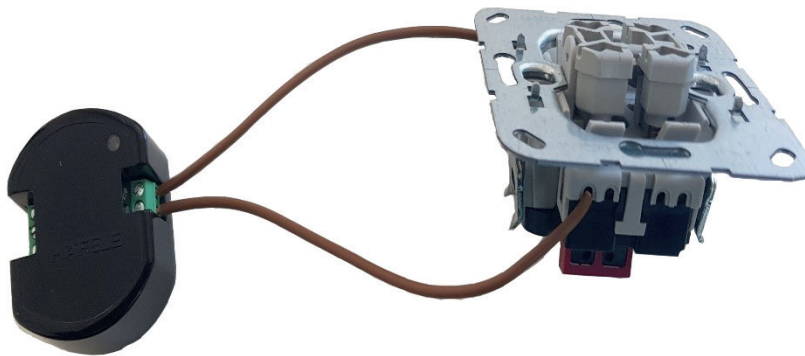
3.2.1 Switch Input

Connect Slot S1 in the Connect Mesh 2-Channel Interface with Second slot of GIRA Switch (Top Side). Here is used Brown wire to connect between them as shown in image 2.



[Image 2]

Connect Slot S2 in the Connect Mesh 2-Channel Interface to First slot (bottom side) of the GIRA Switch. Here is used again Brown wire as shown in image 3.

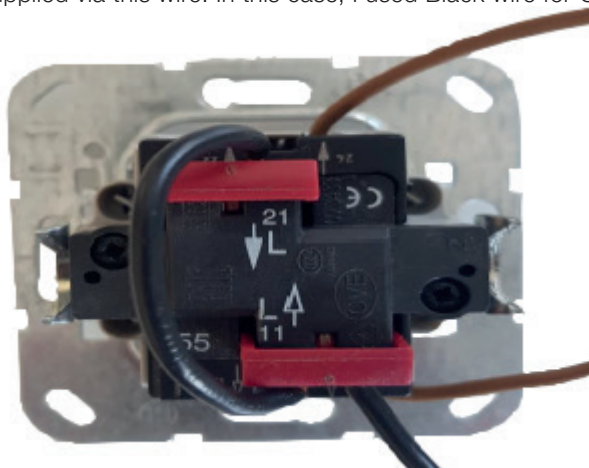


[Image 3]

3.2.2 Bridge Wire & Power Supply

Connect a Black wire between slots 11(L) and 21(L) in the GIRA switch as shown in the image 4. This wire acts a bridge to ensure the power is supplied on both sides of the GIRA Switch.

Connect a Black wire next to black wire (Slot 11 or slot 21) in the GIRA switch. The Power for GIRA Switch is supplied via this wire. In this case, I used Black wire for GIRA Switch power supply as shown in the Figure 4.

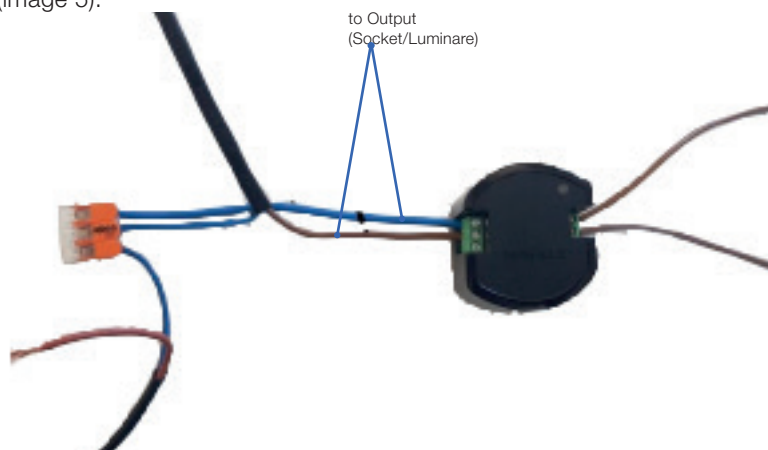


[Image 4]

3.2.3 Output Port

The negative terminal of the power supply and the negative terminal of the Output (Luminare/socket) are merged together and connected with an additional cable in the first Port of the 2-Channel Interface (blue cable).

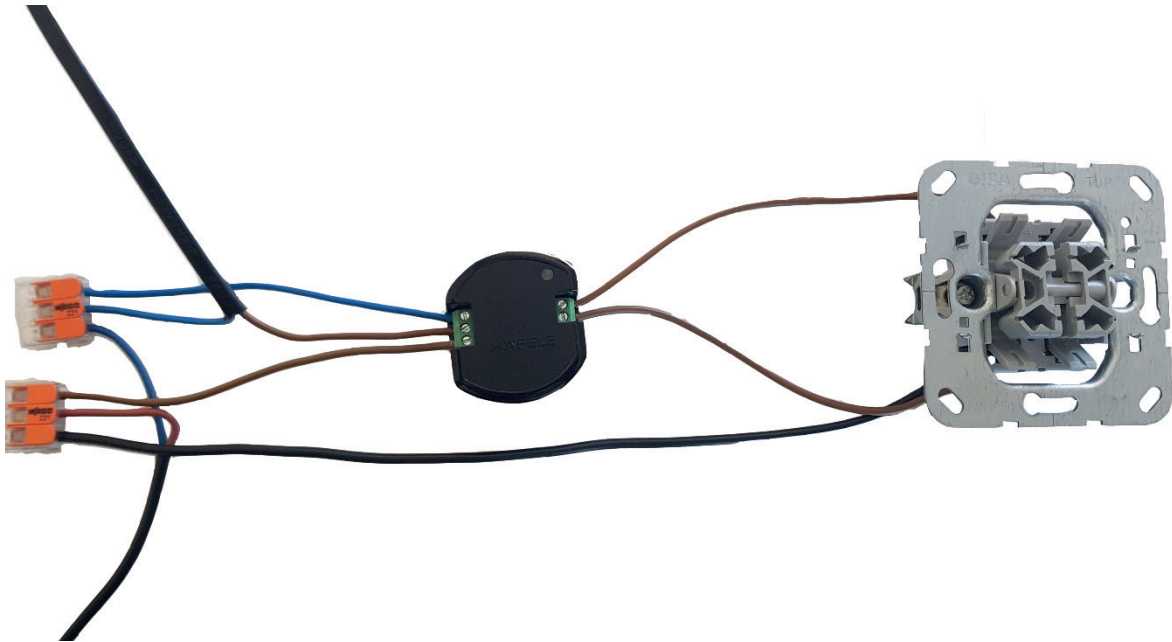
The positive terminal of the output (luminare/socket) connected to the second port of the 2-channel interface (brown cable) (image 5).



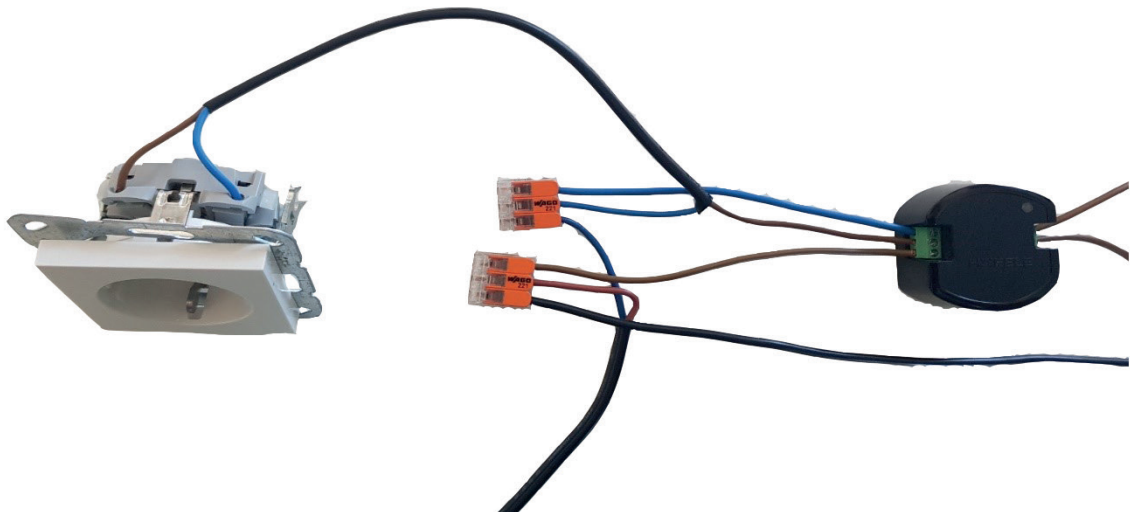
[Image 5]

The positive terminal of the power supply (brown cable) and the positive terminal of the switch (black cable) are merged together and connected with an additional cable (brown cable) to the third port of the 2-channel interface. (image 6 and 7)

en



[Image 6]

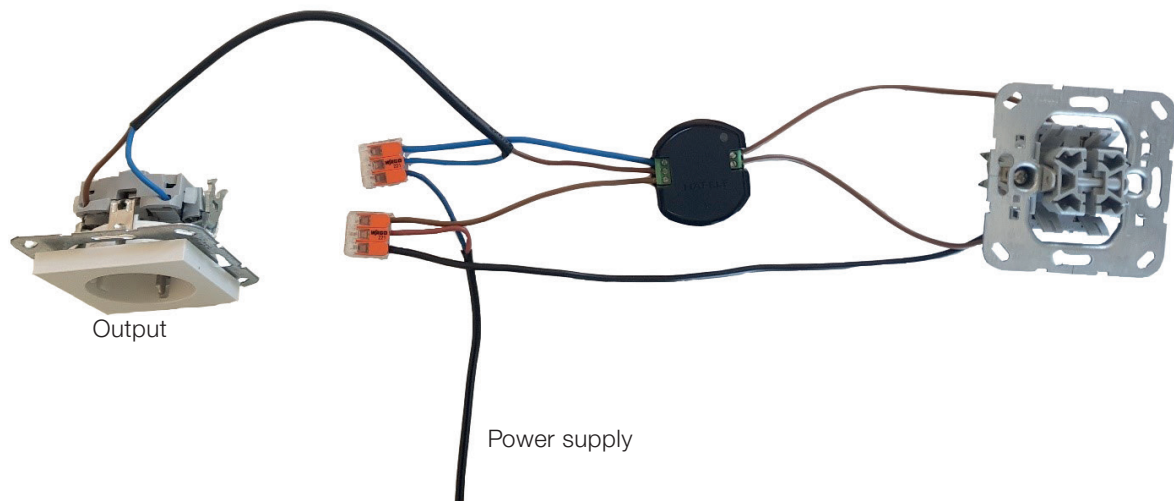


[Image 7]

3.2.4 Final Connection – 2 Channel Interface

In image 8 a flush-mounted Socket is connected as 230V Output. The output can also be used for luminaires or any other devices.

en



[Image 8]

4. List of compatible Switches

No.	Manufacturer	Model Number	EAN
1	GIRA	015500	4010337155003
2	Jung	535U	4011377273702
3	Berker	5035	4011334030447
4	Busch-Jaeger	2020 US-205-101	4011395045800
5	Merten	MEG3155-0000	4042811144753
6	Legrand	775818 - Pro21	3245067758182
7	Siemens	5TD2111	4001869040301
8	Peha	D 619 T	4010105110913
9	Hager	WUE35	3250617020169
10	Kopp	503800002	4008224439022

Apart from this list of switches, you can also use any other compatible switches.

732.28.427

HDE 27.07.21