



NOVEMBER 2020

# Busch-ControlTouch® KNX – Philips HUE Integration

Online Learning Session – Competence Center Europe – Smart Buildings

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# Webinar – Competence Center Europe - Smart Buildings

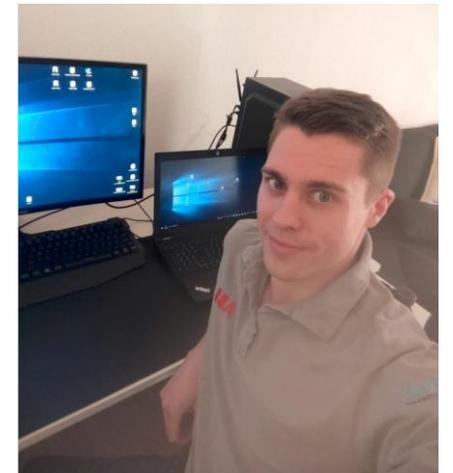


ABB STOTZ-KONTAKT GmbH  
Heidelberg / Germany

**From home office to home office**



ABB Busch-Jaeger  
Luedenscheid /  
Germany



# Agenda

## Introduction

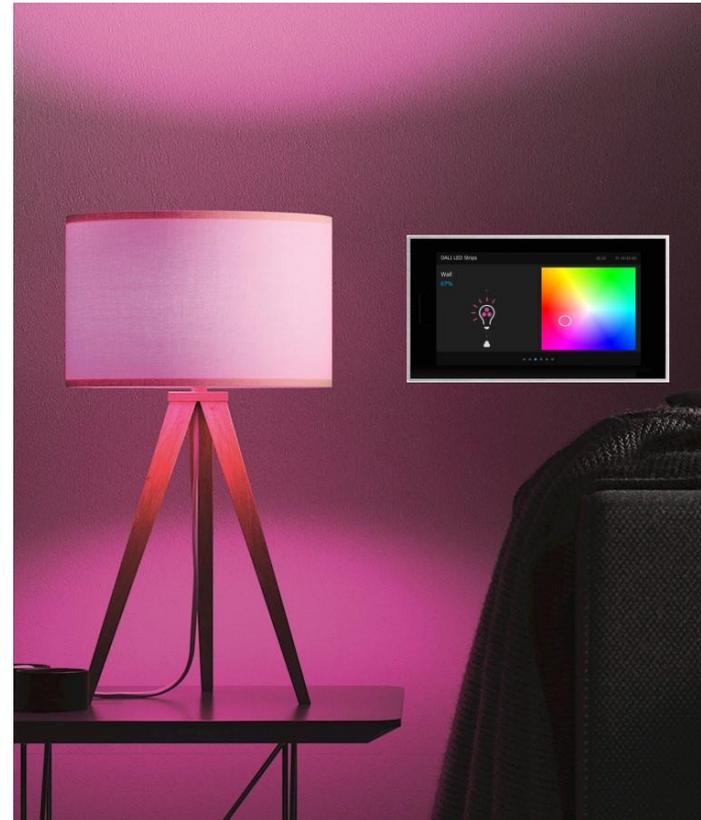
“Friends of Hue” – ABB's smart light switches

## Commissioning

Philips Hue lighting system

Busch-ControlTouch® KNX

ETS: ABB RoomTouch® KNX



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# Busch-ControlTouch® KNX – Philips HUE Integration

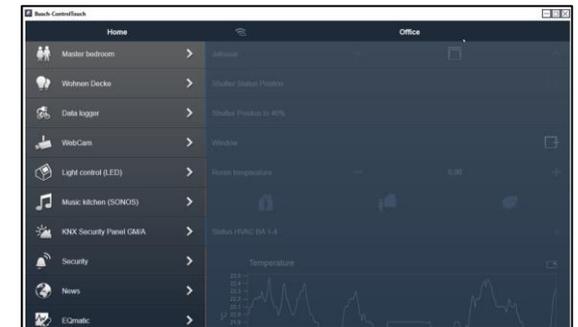
Introduction

# Busch-ControlTouch® KNX – Philips HUE Integration

## Introduction

### Busch-ControlTouch® KNX

- KNX visualization for iOS and Android smartphones, Apple smart watch, tablets and Windows computers (desktop)
- Easy control using intuitive navigation concept
- Display of individual control pages with room images controls
- Fully web-based commissioning with wizard function
- Home automation, switching, dimming, blind control , RTC control, scene/sequences, week timer, TCP & HTTP commands, diagrams, Creation of own scripts (e.g. if – then – else) and more
- Integration of IP cameras, SONOS audio
- KNXnet/IP Tunnel
- Local user (roles and rights)
- Send alarm/malfunction messages over push notifications and/or e-mails including a picture from an IP camera
- **“Bridge” function to convert KNX telegrams to Philips Hue commands**



# Busch-ControlTouch® KNX – Philips HUE Integration

## Introduction

### Philips HUE – [www.philips-hue.com](http://www.philips-hue.com)

Philips Hue is a line of color changing LED lamps, white bulbs, ... which can be controlled wirelessly

Philips Hue is not just a smart bulb, it's a smart lighting system

The Hue system was released in October 2012 as an Apple Store exclusive and was marketed as the first iOS controlled lighting appliance

It uses the Zigbee lighting protocol to communicate, and can be controlled via smartphone apps over cellular network, Ethernet or Wi-Fi via a Zigbee–Ethernet bridge wired to a router

In July 2018, an outdoor version of the Philips Hue suite was introduced

Today Philips Hue works with many other smart home platforms, assistants and products (Alexa, Apple HomeKit, Google Assistant, IFTTT, SmartThings ...)

Source: Wikipedia



Source:  
[www.philips-hue.com](http://www.philips-hue.com)

# Busch-ControlTouch® KNX – Philips HUE Integration

## Introduction

### Philips HUE – [www.philips-hue.com](http://www.philips-hue.com)

Philips Hue offers a wide range of smart bulbs, light strips, lamps, spot lights, wall lights, motion detectors, switches, ...

#### – Hue lights

- These smart and energy-efficient LED lights come in a wide variety of shapes, sizes and models to suit your space

#### – Hue Bridge

- The heart of your Philips Hue system, the Bridge acts as a smart hub, connecting your devices to your smart lights
- You can add up to 50 Philips Hue lights and accessories to one bridge

#### – Hue App

- Control your smart lights quickly and conveniently with the Philips Hue app

#### – Philips and HUE are brands of Philips Electronics N.V.

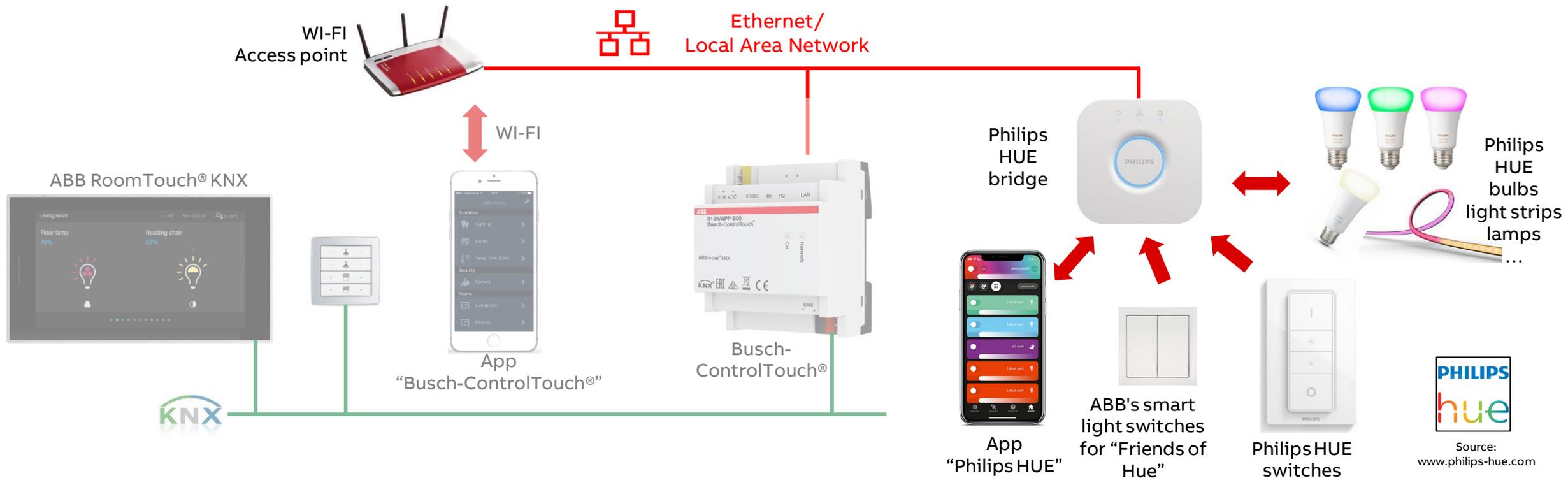


Source:  
[www.philips-hue.com](http://www.philips-hue.com)

# Busch-ControlTouch® KNX – Philips HUE Integration

## Introduction

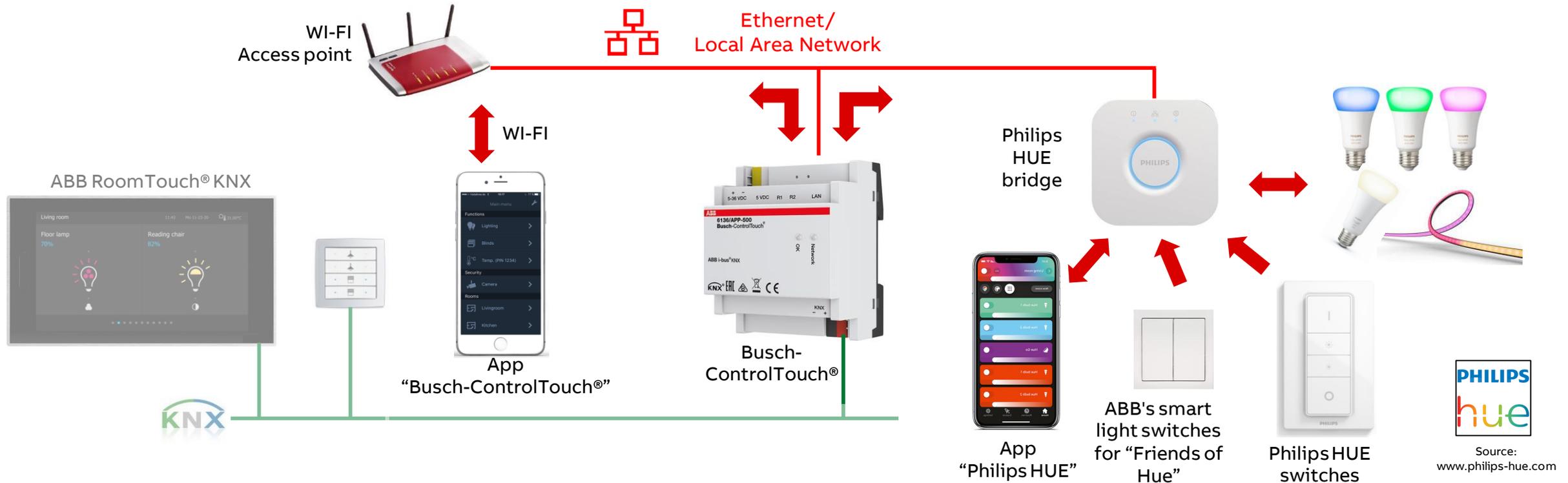
### Overview – Philips Hue lighting system



# Busch-ControlTouch® KNX – Philips HUE Integration

## Introduction

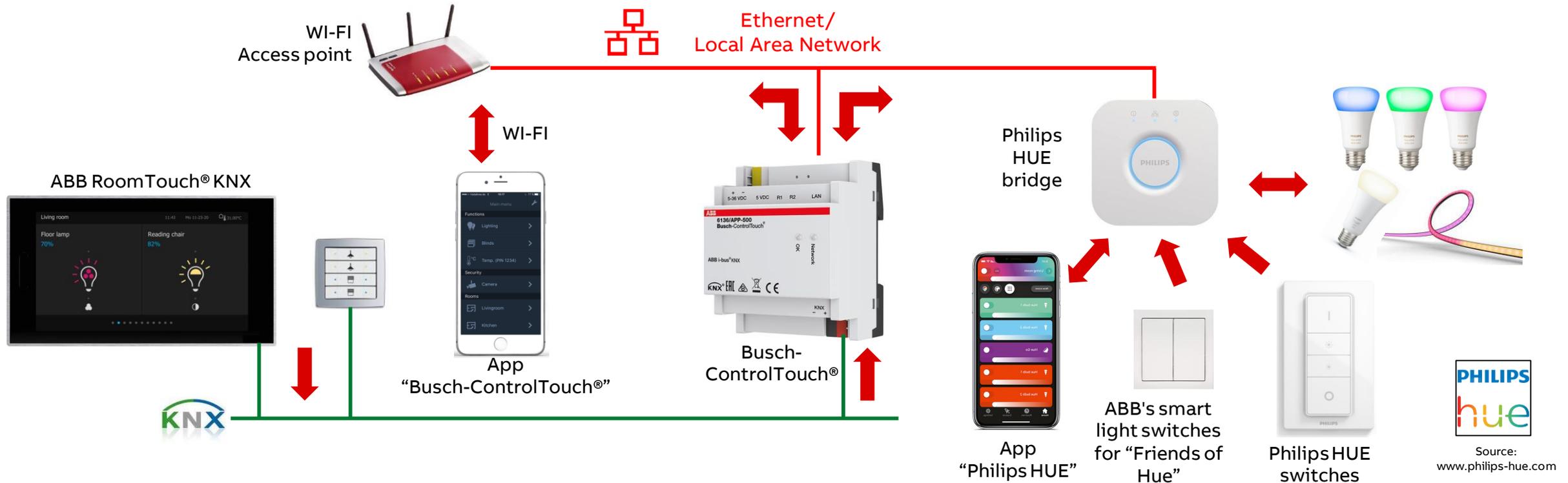
### Overview – Philips Hue lighting system and Busch-ControlTouch® KNX



# Busch-ControlTouch® KNX – Philips HUE Integration

## Introduction

### Overview – Philips Hue lighting system, Busch-ControlTouch® KNX and KNX sensors



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# Busch-ControlTouch® KNX – Philips HUE Integration

“Friends of Hue”

# Busch-ControlTouch® KNX – Philips HUE Integration

“Friends of Hue”

## ABB's smart light switches for “Friends of Hue”

When you see the “Friends of Hue” logo, it means the product is tested, certified and works seamlessly with Philips Hue

ABB’s new range of “Friends of Hue” smart light switches will turn the control of your Philips Hue lighting system into sheer enjoyment

Free and flexible from anywhere in the room

Completely wireless without batteries – by smart radio technology (Zig-bee-Mesh technology without battery)

The switches are also integrated seamlessly via the Hue bridge in the Philips Hue lighting system

This allows users to set up their light switch in the Philips Hue app and control and personalize their home lighting and ambience via an ABB Friends of Hue smart switch

<https://new.abb.com/low-voltage/products/residential-product/friends-of-hue-smart-switch>



# Busch-ControlTouch® KNX – Philips HUE Integration

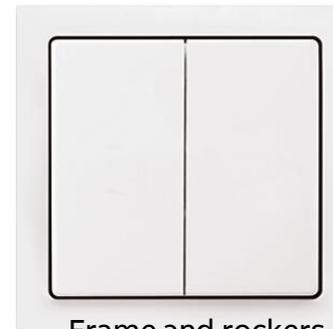
“Friends of Hue”

## ABB's smart light switches for “Friends of Hue”

Friends of Hue smart switch complete set

- Article No.: 6716 UJ-84
- Order No.: 2CKA006710A0010
- Combinable with the ABB switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear

<https://new.abb.com/low-voltage/products/residential-product/friends-of-hue-smart-switch>



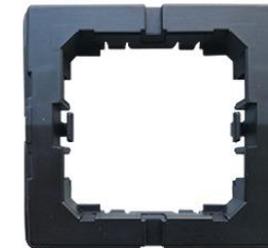
Frame and rockers



Mounting plate



Smart switch insert



Intermediate ring



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# Busch-ControlTouch® KNX – Philips HUE Integration

“Friends of Hue”

## ABB's smart light switches for “Friends of Hue”

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<https://new.abb.com/low-voltage/products/residential-product/friends-of-hue-smart-switch>

YouTube “Smarter Home application – Friends of Hue smart switch”

<https://www.youtube.com/watch?v=CIBeTFu6tLs>



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# Busch-ControlTouch® KNX – Philips HUE Integration

Commissioning

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Step-by-step commissioning

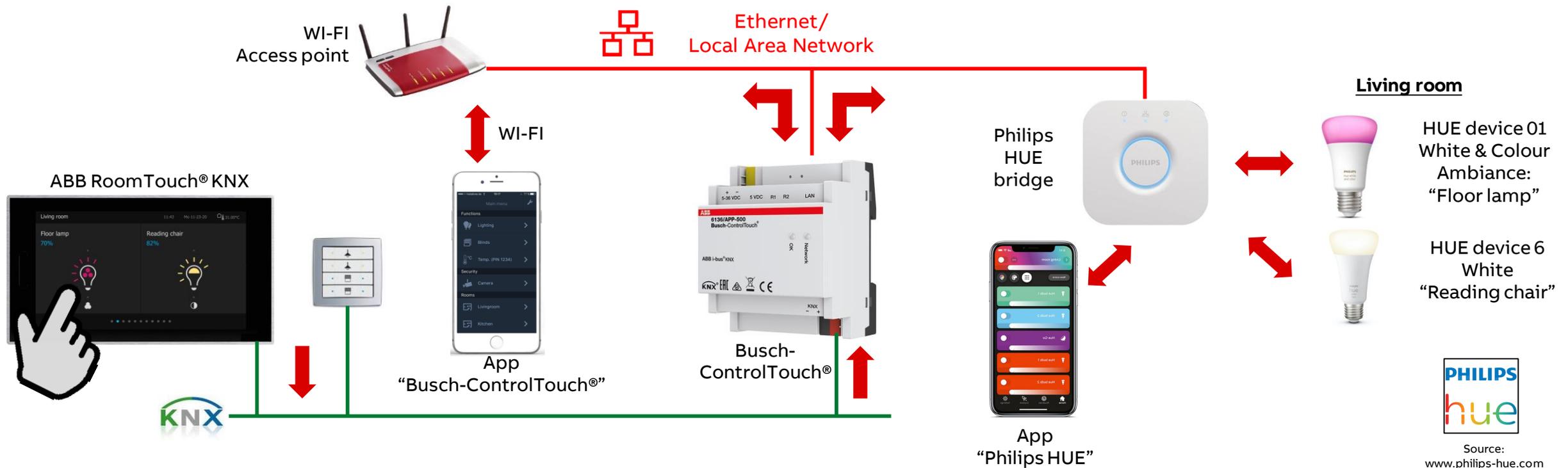
- Philips Hue lighting system (bulbs, lamps, bridge, app, ...)
- Busch-ControlTouch® KNX
  - Settings in the device (direct)
  - “MyBuildings” portal (group addresses, pages, control elements, ...)
- ETS: ABB RoomTouch® KNX



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Overview – Philips Hue lighting system, Busch-ControlTouch® KNX and KNX sensors



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Philips Hue lighting system

- Download the Philips Hue app from the App Store or the Google Play Store
- Connect the HUE bulbs, light strips, lamps to the supply voltage (e.g. screw the bulb into the socket)
- The HUE lights are on and ready to be connected to the bridge
- The Hue bridge is both connected to the supply voltage and connected to the IP network
- As soon as all three lamps light up on the bridge, it is ready for use
- Search for the bridge in the app to connect then your lights to it
  - Add Hue bridge
  - Add HUE lights (assign names)
  - Create rooms and link the HUE lights to them
- Test the Hue lighting system with the app ✓

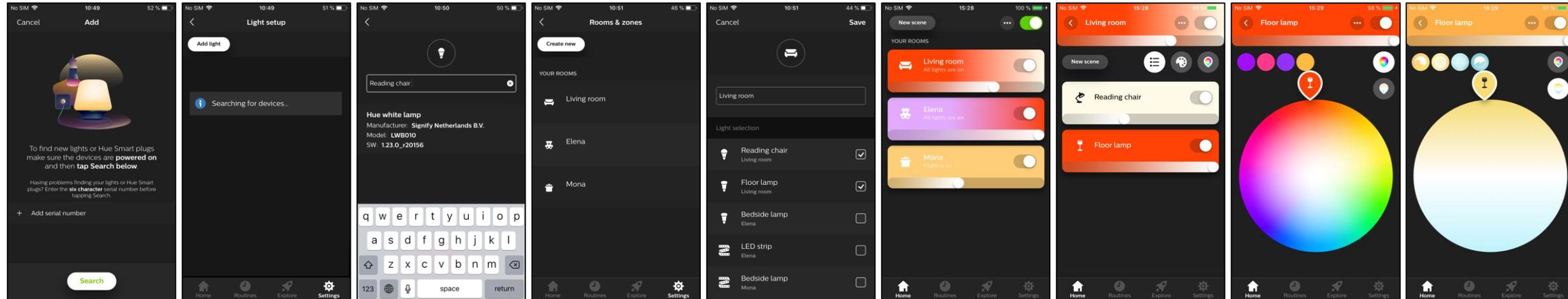


Source:  
www.philips-hue.com

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Philips Hue lighting system



→ All Hue components must have been configured correctly

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings in the device (direct)

Some settings can only be made via direct access to the Busch-ControlTouch® KNX

An IP connection to the device must be available (local IP address, e.g. *192.168.1.85*)

The Philips Hue system can be configured via “Settings – Protocols”

- Enter the IP address of the Hue bridge (e.g. *192.168.1.121*)
- Then press the push-button of the Hue bridge
- And finally the “Apply” button must be pressed

The screenshot displays the 'Settings protocols' page in the Busch-ControlTouch web interface. The browser address bar shows the IP address 192.168.1.85. The page features the ABB logo and a 'Load configuration' button. A sidebar on the left lists various settings categories, with 'protocols' selected. The main content area is divided into 'KNX settings' and 'Hue settings'. The 'KNX settings' section includes a dropdown for 'KNX protocol' (set to 'Enabled'), a text input for 'KNX physical address' (1.1.232), a dropdown for 'Connection method' (set to 'Direct'), and a text input for 'KNXnet/IP tunnel listen port' (3671). The 'Hue settings' section includes a text input for 'IP address of the Hue Bridge' (192.168.1.121). Both IP addresses are highlighted with red boxes. A red arrow points to the 'Apply' button in the Hue settings section.



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

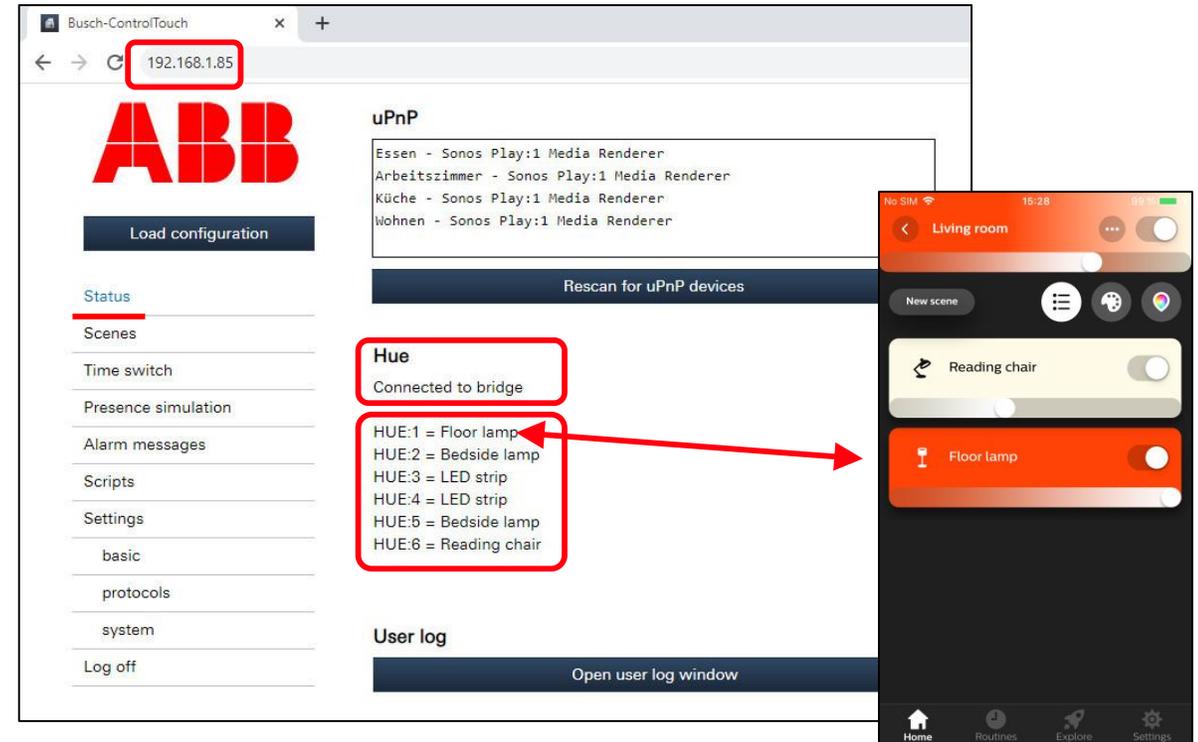
### Busch-ControlTouch® KNX – Settings in the device (direct)

Some settings can only be made via direct access to the Busch-ControlTouch® KNX

An IP connection to the device must be available (local IP address, e.g. *192.168.1.85*)

Check whether the bridge is connected to the Busch-ControlTouch® KNX in the “Status” menu

- “HUE – connected to the bridge”
- The number of the HUE devices in the Busch-ControlTouch® KNX and the names assigned in the HUE app are displayed, e.g.
  - *HUE:1 = Floor lamp*
  - *HUE:2 = Bedside lamp*
  - *HUE:X = ....*
  - *HUE:6 = Reading chair*



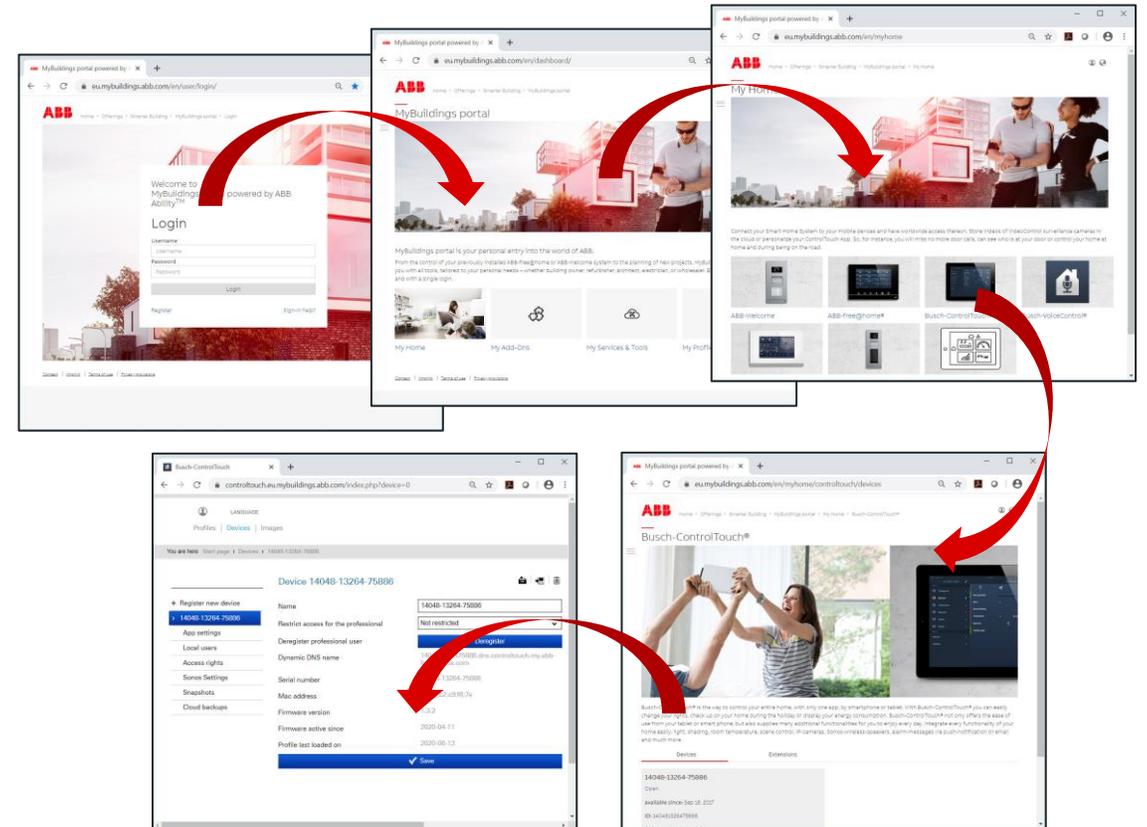
# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

Configuration is carried out via “MyBuildings” portal

- Open the “MyBuildings portal” page and log yourself in (end customer or expert)
- Click on “My home“ / “My installations”
- Click on “Busch-ControlTouch”
- The available devices are displayed
- Click on “Open”
- The configuration page is displayed



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

Configuration is carried out via “MyBuildings” portal

- Import the ETS project and define the group addresses you wish to use in the Busch-ControlTouch® KNX

The screenshot shows the Busch-ControlTouch web interface for configuring group addresses. The main content area is titled "Group Addresses" and features a tree view of the project structure. The selected address is "28/5/5 - HUE1 Switch - bulb white@colour". The right-hand panel provides configuration options for this address, including a "Name" field, a "Send" field, a "Status" field, and an "Add as" dropdown menu set to "Switch (DPT 1.x)". A "Save" button is visible at the bottom of the configuration area.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

Configuration is carried out via “MyBuildings” portal

– Import the ETS project and define the group addresses you wish to use in the Busch-ControlTouch® KNX

– Select a group address from the list plus HUE command and specify for what purpose you wish to use it (e.g. for a switch, a dimmer or RGB control)

Example:

- Type: Switch (DPT 1.x)
- Name: “*HUE1 Switching - Bulb Living room floor lamp*”
- Sending GA: “HUE:1/S”
- Status GA: “HUE:1/S, 28/5/5”  
The group address 28/5/5 is sent by a KNX sensor to switch the HUE device no. 01 on/off

The screenshot shows the 'Group Addresses' configuration page in the Busch-ControlTouch portal. A list of group addresses is displayed, with '28/5/5 - HUE1 Switch - bulb white@colour' selected. The configuration form on the right shows the following details:

- Name: HUE1 Switch - bulb white@colour
- Send: 28/5/5
- Status: (empty)
- Grouping: No group
- Group name: (empty)
- Allow in scenes and time switches:
- Add as: Switch (DPT 1.x)

A red callout box points to the 'Status' field with the text: “Status GA”: Link between a KNX telegram and a Philips Hue command.

Below the configuration form, a summary bar shows the configuration for the selected group address:

Switch (DPT 1.x)	HUE1 Switching - Bulb Living room flo	HUE:1/S	HUE:1/S, 28/5/5
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At the bottom, a table lists the configured group addresses:

Type	Name	Sending GA	Status GA	Value	Scene / Time switch	Read switch
Switch (DPT 1.x)	HUE1 Switching - Bulb Living room flo	HUE:1/S	HUE:1/S, 28/5/5		<input type="checkbox"/>	<input type="checkbox"/>

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

#### Group addresses and HUE commands

- A Hue component must depict both a sending group address as well as a status group address
- This is done according to the following concept:
  - “HUE:” followed by the lamp number, a “/” and the desired command → HUE:number/command
  - HUE:1/S for switching lamp 1 on/off
  - HUE:1/R for setting the RED colour of lamp 1
  - HUE:6/CT for setting the colour temperature of lamp 6
- The command “RGB illumination” can be used to display a specific colour of a Hue lamp
- This can also be done via two separate dimmers with “HUE – Hue colour” and “SAT – Colour saturation”
- The colour temperature can be used to influence the warmth of the white light

#### The following commands are available:

Switch	S	Switching on/off
RGB illumination	R	Red
RGB illumination	G	Green
RGB illumination	B	Blue
Dimmer	HUE	Hue (colour)
Dimmer	SAT	Colour saturation
Dimmer	BRI	Brightness
Dimmer	CT	Colour temperature

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

Group addresses and HUE commands, for example

– HUE bulb “White & Colour Ambiance”, HUE device no. 01  
Colour temperature 2000K-6500K + 16 million colours

– Component “RGB(W)”

• Name “*HUE1 RGBCT - Bulb Living room floor lamp*”

Red (DPT 5.001)	HUE:1/R	HUE:1/R, MG/Mid/GA
Green (DPT 5.001)	HUE:1/G	HUE:1/G, MG/Mid/GA
Blue (DPT 5.001)	HUE:1/B	HUE:1/B, MG/Mid/GA
White (DPT 5.001)	HUE:1/CT	HUE:1/CT, MG/Mid/GA

– Component “Switch”

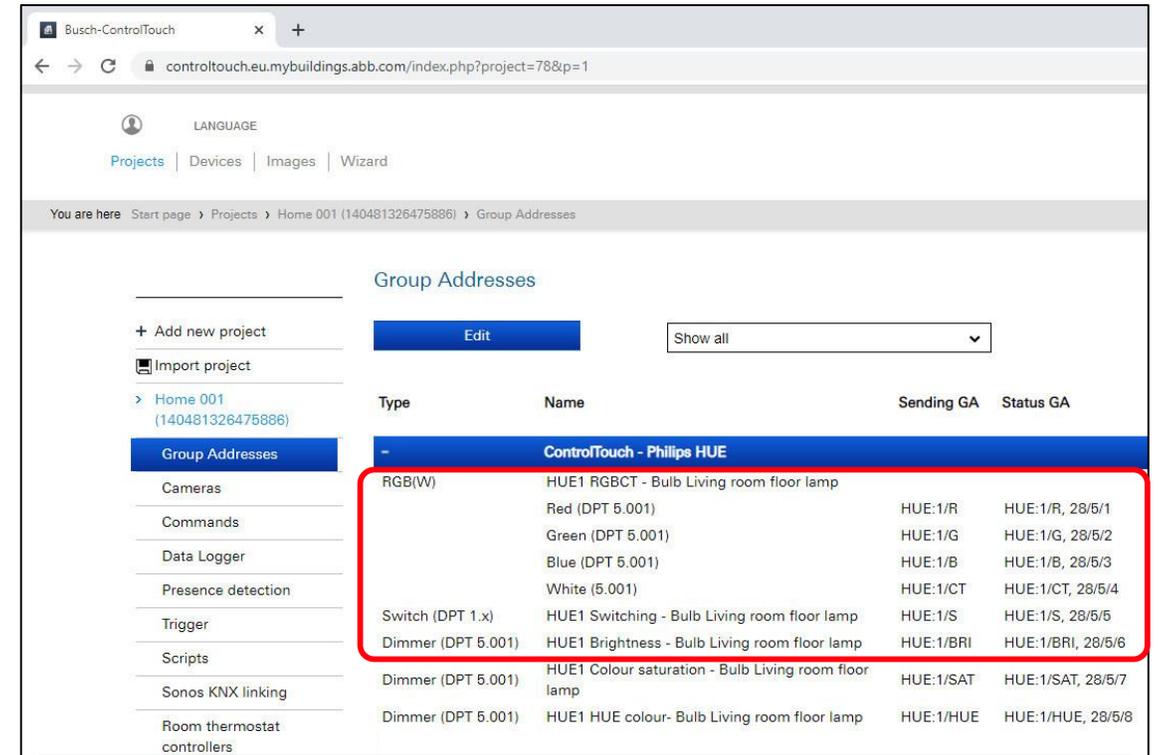
Switch (DPT 1.x)      HUE:1/S      HUE:1/S, MG/Mid/GA

– Component “Dimmer”

Dimmer (DPT 5.001)      HUE:1/BRI      HUE:1/BRI, MG/Mid/GA



MG/Mid/GA: ETS group address (main/middle/address)



Type	Name	Sending GA	Status GA
<b>ControlTouch - Philips HUE</b>			
RGB(W)	HUE1 RGBCT - Bulb Living room floor lamp		
	Red (DPT 5.001)	HUE:1/R	HUE:1/R, 28/5/1
	Green (DPT 5.001)	HUE:1/G	HUE:1/G, 28/5/2
	Blue (DPT 5.001)	HUE:1/B	HUE:1/B, 28/5/3
	White (5.001)	HUE:1/CT	HUE:1/CT, 28/5/4
Switch (DPT 1.x)	HUE1 Switching - Bulb Living room floor lamp	HUE:1/S	HUE:1/S, 28/5/5
Dimmer (DPT 5.001)	HUE1 Brightness - Bulb Living room floor lamp	HUE:1/BRI	HUE:1/BRI, 28/5/6
Dimmer (DPT 5.001)	HUE1 Colour saturation - Bulb Living room floor lamp	HUE:1/SAT	HUE:1/SAT, 28/5/7
Dimmer (DPT 5.001)	HUE1 HUE colour- Bulb Living room floor lamp	HUE:1/HUE	HUE:1/HUE, 28/5/8

The components required depend on the type of Hue light (white, colour, ...)

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

Group addresses and HUE commands, for example

- HUE bulb “White” (switch and dim), HUE device no. 06
- Component “Switch”
  - Name “*HUE6 Switching - Bulb Living room reading chair*”
  - Switch (DPT 1.x)            HUE:6/S            HUE:6/S, MG/Mid/GA
- Component “Dimmer”
  - Dimmer (DPT 5.001)    HUE:6/BRI        HUE:6/BRI, MG/Mid/GA



MG/Mid/GA: ETS group address (main/middle/address)

Type	Name	Sending GA	Status GA
Switch (DPT 1.x)	HUE6 Switching - Bulb Living room reading chair	HUE:6/S	HUE:6/S, 28/5/25
Dimmer (DPT 5.001)	HUE6 Brightness - Bulb Living room reading chair	HUE:6/BRI	HUE:6/BRI, 28/5/26

The components required depend on the type of Hue light (white, colour, ...)

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

– Add a page



The screenshot shows the Busch-ControlTouch web portal interface. The browser address bar displays the URL: controltouch.eu.mybuildings.abb.com/index.php?device=1236&p=48&profile=92&page=1512795. The page title is "Juergen". On the left sidebar, the "Add page" option is highlighted with a red box. The main content area shows a smartphone displaying "Page 25". On the right, the "Page" configuration panel is visible, including fields for Name (Page 25), Page type (Control page), Icon, and PIN. Below these are color selection options for Background colour, Background gradient color, Text colour 1, Text colour 2, Separator colour, Title foreground colour, and Title background colour, each with RGB and A values. A "Save" button is at the bottom right.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Add a page
- Enter a new name for the page (“Living room”)



The screenshot shows the 'Add page' configuration screen in the Busch-ControlTouch web interface. The 'Name' field is highlighted with a red box and contains the text 'Living room'. The 'Page type' is set to 'Control page'. A central smartphone mockup displays the 'Living room' page. The interface includes a sidebar with navigation options like 'Register new device', 'Add new profile', and 'Add page'. The right side features a 'Page' configuration panel with various color and display settings.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Add a page
- Enter a new name for the page (“Living room”)
- Click on “+” to add a control element (RGB control)



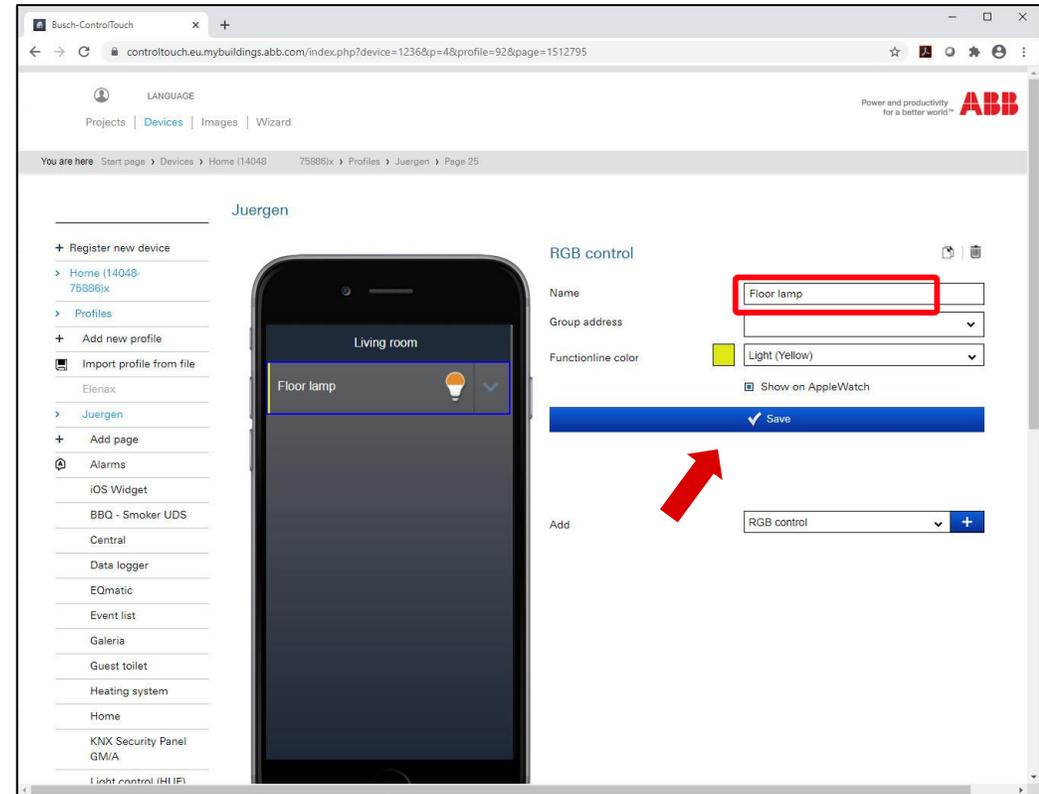
The screenshot shows the Busch-ControlTouch web interface for configuring a page. The page name is "Living room" and the page type is "Control page". The "Add" section shows a list of control elements, with "RGB control" highlighted in blue and a red box around it. A red arrow points to the "+" button at the bottom right of the "Add" section.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Add a page
- Enter a new name for the page (“Living room”)
- Click on “+” to add a control element (RGB control)
- Enter a new name for the control element (“Floor lamp”)
- Click on the “Save” button

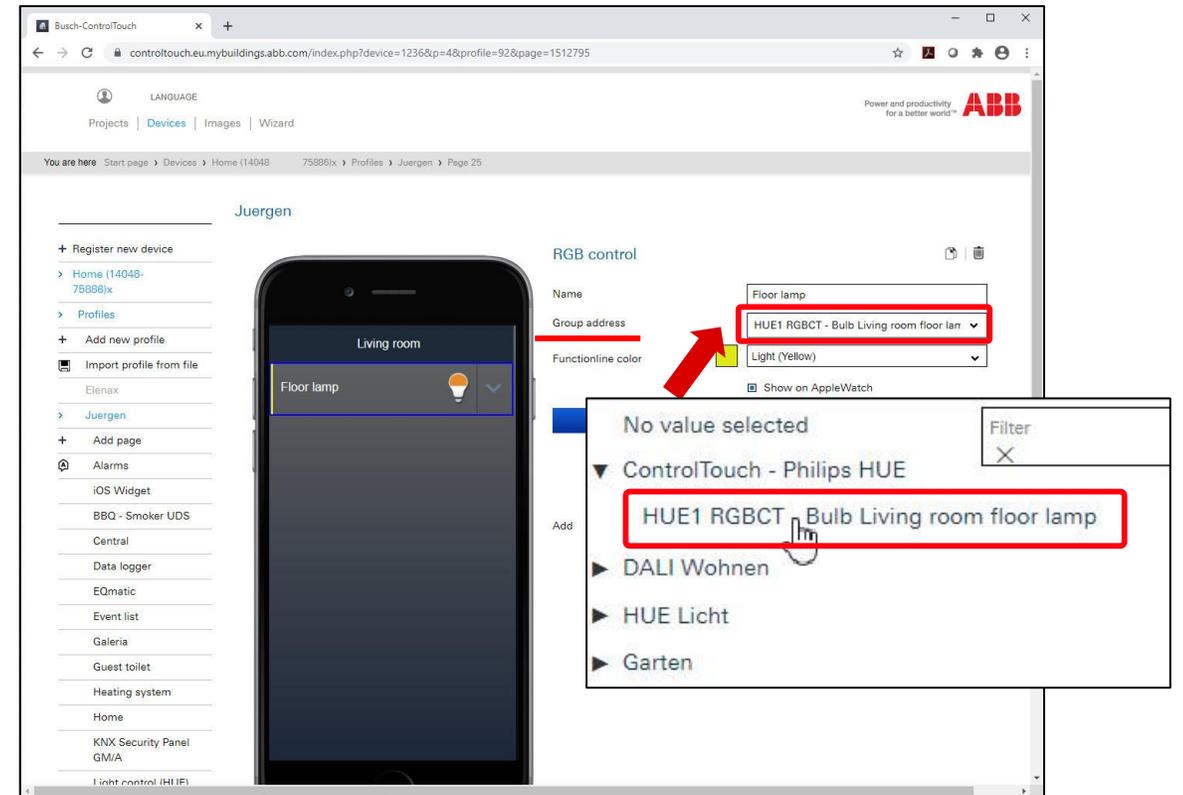


# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Add a page
- Enter a new name for the page (“Living room”)
- Click on “+” to add a control element (RGB control)
- Enter a new name for the control element (“Floor lamp”)
- Click on the “Save” button
- Select the group address (incl. HUE command)
  - RGB(W): “HUE1 RGBCT - Bulb Living room floor lamp”



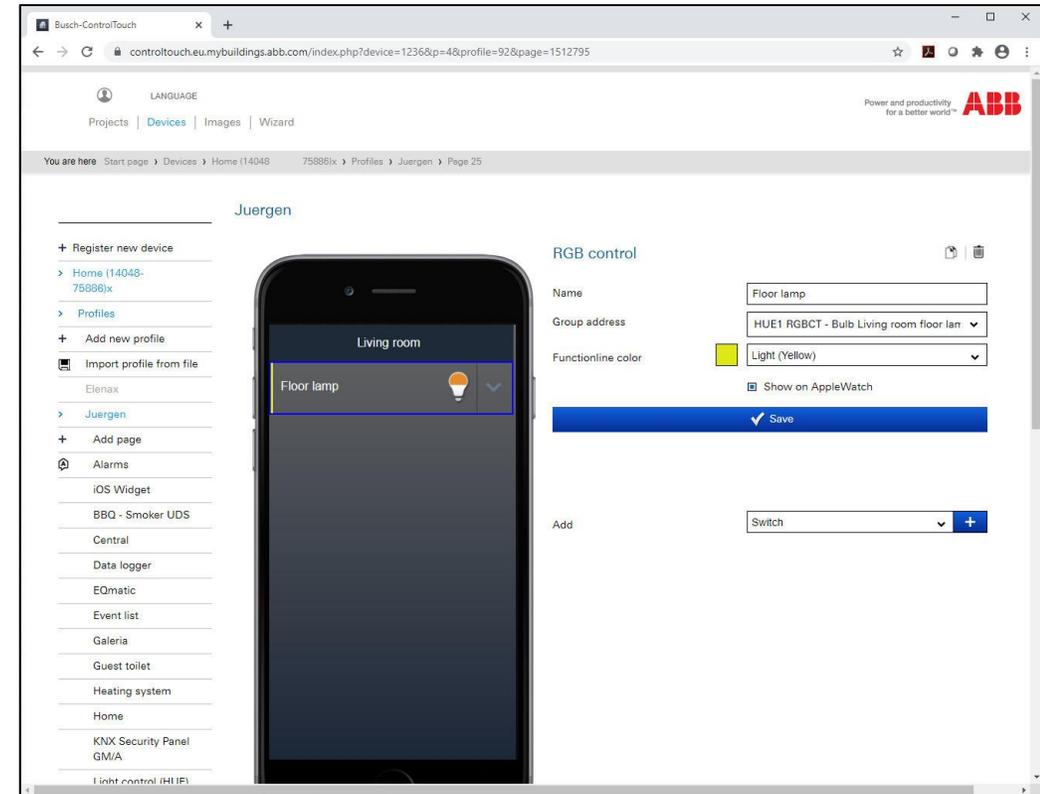
The screenshot shows the Busch-ControlTouch web interface. The main content area displays the configuration for a Philips HUE light bulb. The 'Group address' dropdown is set to 'HUE1 RGBCT - Bulb Living room floor lamp'. A red arrow points to this dropdown, and a red box highlights the selected option. A second red box highlights the same option in a dropdown menu that is open below the main form.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Add a page
- Enter a new name for the page (“Living room”)
- Click on “+” to add a control element (RGB control)
- Enter a new name for the control element (“Floor lamp”)
- Click on the “Save” button
- Select the group address (incl. HUE command)
  - RGB(W): “HUE1 RGBCT - Bulb Living room floor lamp”



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Click on “+” to add the element (dimmer)
- Enter a new name for the control element (“*Reading chair*”)
- Click on the “Save” button
- Select the group address (incl. HUE command)
  - Dimmer: *HUE6 Brightness - Bulb Living room reading chair*
  - Switch: *HUE6 Switching - Bulb Living room reading chair*



The screenshot displays the Busch-ControlTouch web interface for configuring a Philips Hue dimmer. The interface is divided into several sections:

- Left Sidebar:** Contains navigation options such as "Register new device", "Home (14048: 75886ix)", "Profiles", "Add new profile", "Import profile from file", "Elenax", "Juergen", "Add page", "Alarms", "iOS Widget", "BBO - Smoker UDS", "Central", "Data logger", "EQmatic", "Event list", "Galeria", "Guest toilet", "Heating system", "Home", "KNX Security Panel", "GM/A", and "Light control (HUE)".
- Central Preview:** Shows a smartphone displaying a "Living room" profile with a "Floor lamp" and a "Reading chair" control element.
- Main Configuration Area:** Shows the configuration for a "Dimmer" element named "Reading chair". The "Dimmer" dropdown is set to "HUE6 Brightness - Bulb Living room reading chair" and the "Switch" dropdown is set to "HUE6 Switching - Bulb Living room reading chair". The "Dimmer type" is set to "Text with slider" and the "Text alignment" is set to "Left".
- Search Filters:** Two search filters are visible. The top filter, labeled "lamp", shows a list of search results including "HUE1 HUE colour- Bulb Living room floor lamp" and "HUE6 Brightness - Bulb Living room reading chair". The bottom filter, labeled "Only use dim values", shows a list of search results including "ControlTouch - Philips HUE", "HUE1 Switching - Bulb Living room floor lamp", and "HUE6 Switching - Bulb Living room reading chair". Red arrows point from the red boxes in the configuration area to the corresponding entries in the search filters.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Busch-ControlTouch® KNX – Settings “MyBuildings” portal

- Click on “+” to add the element (dimmer)
- Enter a new name for the control element (“*Reading chair*”)
- Click on the “Save” button
- Select the group address (incl. HUE command)
  - Dimmer: *HUE6 Brightness - Bulb Living room reading chair*”
  - Switch: *“HUE6 Switching - Bulb Living room reading chair”*”

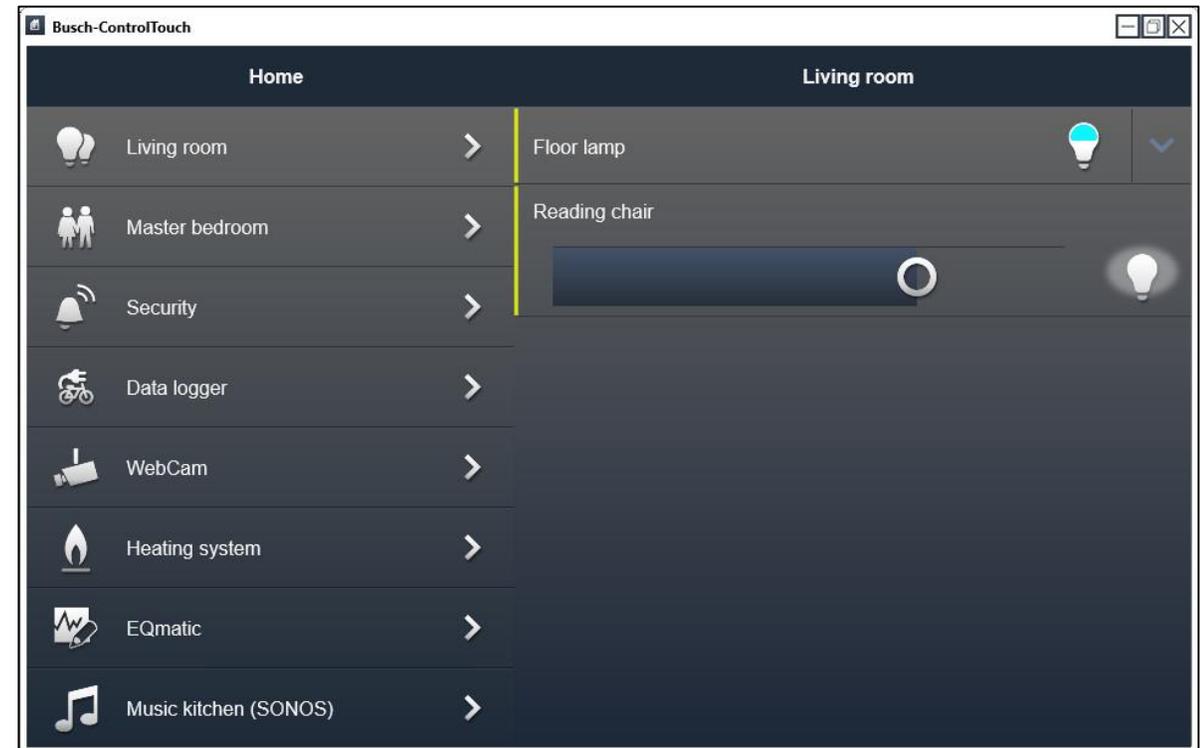
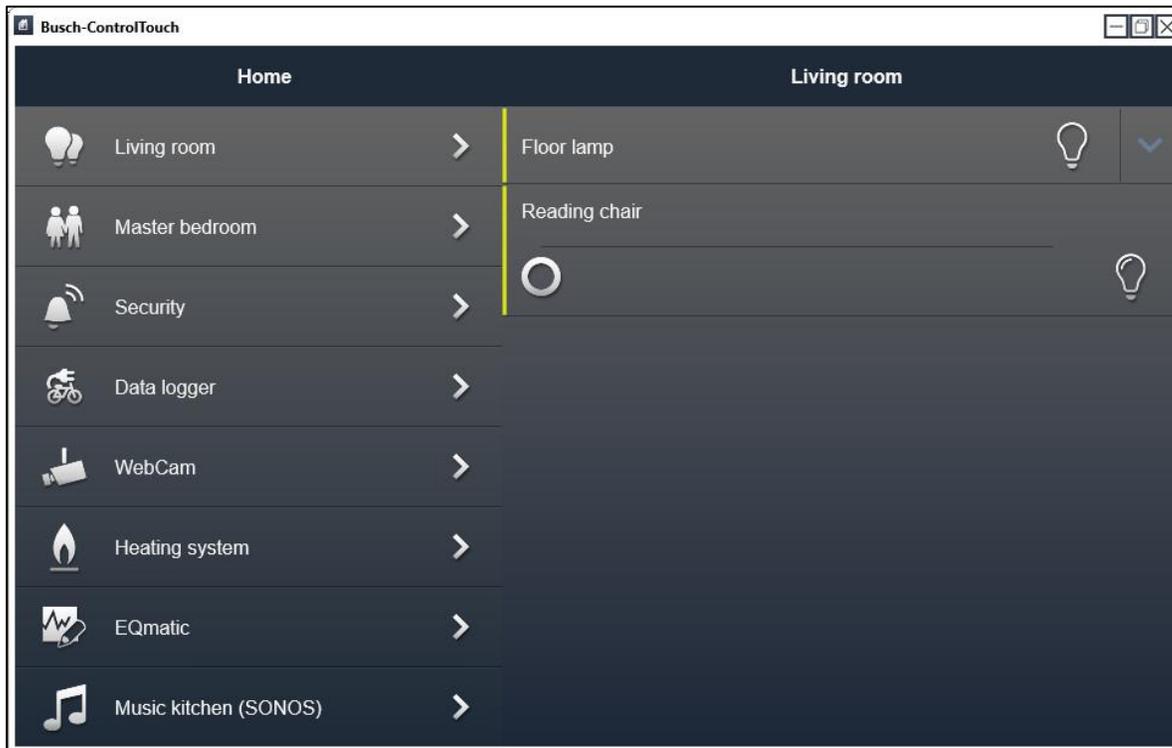


The screenshot displays the Busch-ControlTouch web interface for configuring a dimmer. The browser address bar shows the URL: controltouch.eu.mybuildings.abb.com/index.php?device=1236&p=48&profile=92&page=1512795. The page title is "Juergen". The left sidebar shows a navigation menu with options like "Register new device", "Home (14048: 75886ix)", "Profiles", "Add new profile", "Import profile from file", "Elenax", "Juergen", "Add page", "Alarms", "iOS Widget", "BBQ - Smoker UDS", "Central", "Data logger", "EQmatic", "Event list", "Galeria", "Guest toilet", "Heating system", "Home", "KNX Security Panel GM/A", and "Light control (HUE)". The main content area shows a smartphone preview of the "Living room" page with a "Reading chair" control element. To the right, the "Dimmer" configuration panel is visible, with fields for Name ("Reading chair"), Dimmer ("HUE6 Brightness - Bulb Living room readi"), Switch ("HUE6 Switching - Bulb Living room readi"), Dimmer type ("Text with slider"), Text alignment ("Left"), Step size for +/- ("10"), Functionline color ("Light (Yellow)"), and a "Save" button. There are also checkboxes for "Show only", "Switch only off", and "Show on AppleWatch".

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

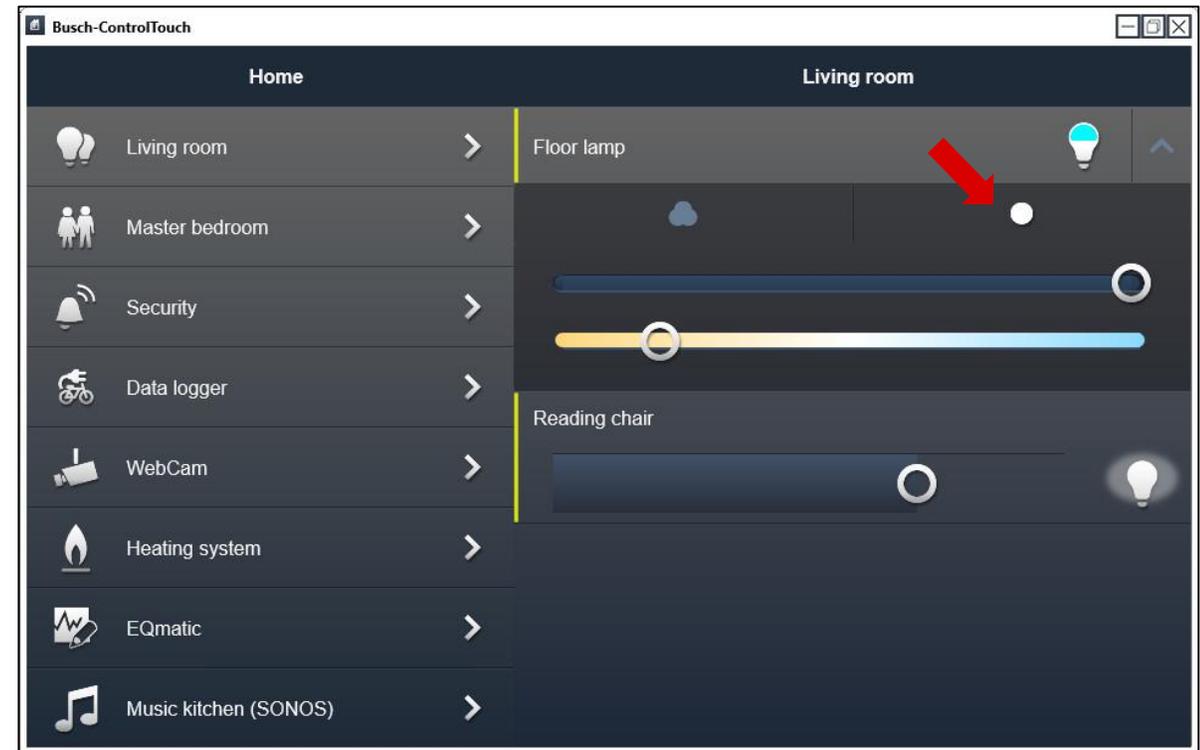
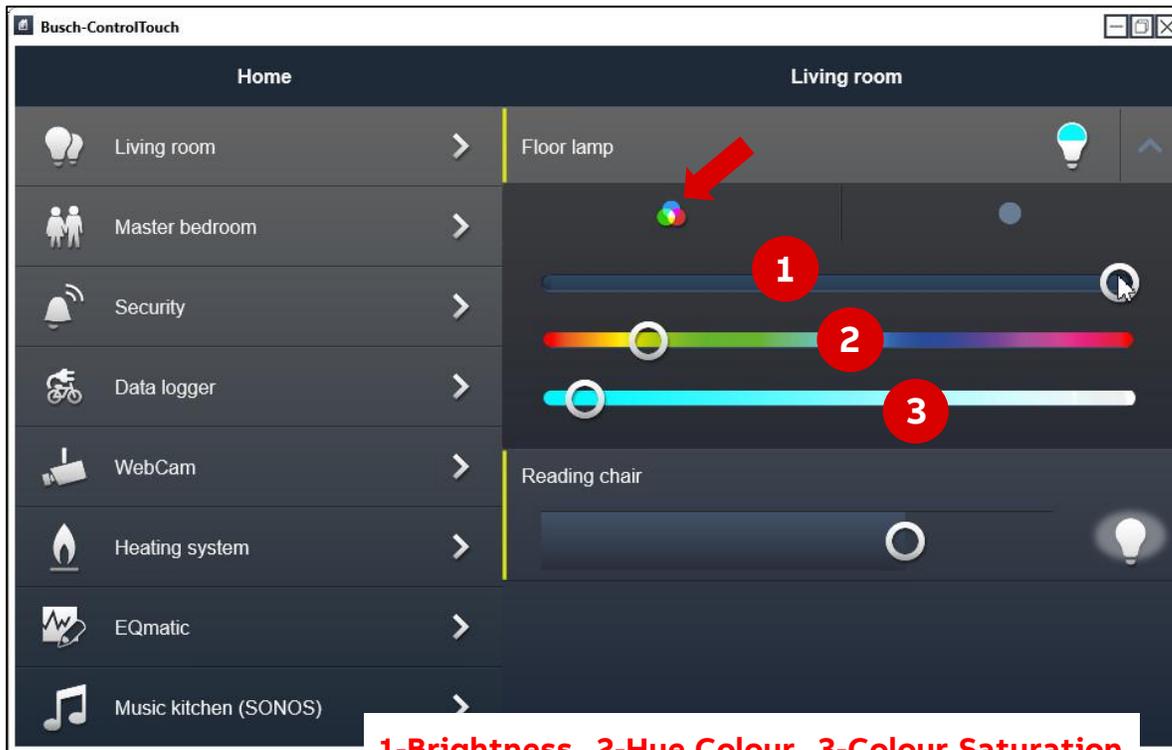
**Busch-ControlTouch® KNX App – HUE device 01 White & Colour “Floor lamp” and HUE device 06 White “Reading chair”**



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

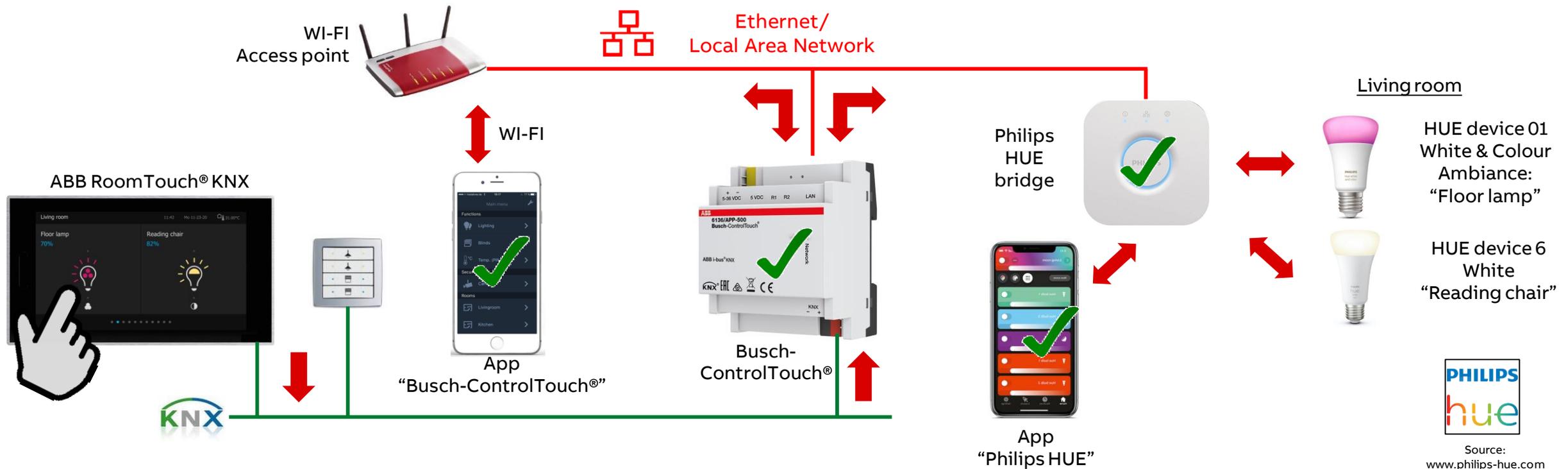
**Busch-ControlTouch® KNX App – HUE device 01 White & Colour “Floor lamp” and HUE device 06 White “Reading chair”**



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### Overview – Philips Hue lighting system, Busch-ControlTouch® KNX and KNX sensors



# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### ABB RoomTouch® KNX

- ABB RoomTouch® will expand our range by an additional high-quality KNX Touch panel
- One device and two colors (black and white)
- One Panel that can be mounted portrait and landscape
- New operating concept for quick operation of your lights, blinds, temperature, scenes and audio
- Flat, good looking device with enough functions for a room and for the right price
- Integrated temperature sensor
- Proximity sensor will switch on the device when I am near to it
- Quick switch off when the room is dark (bedroom application)
- Commission via ETS and DCA



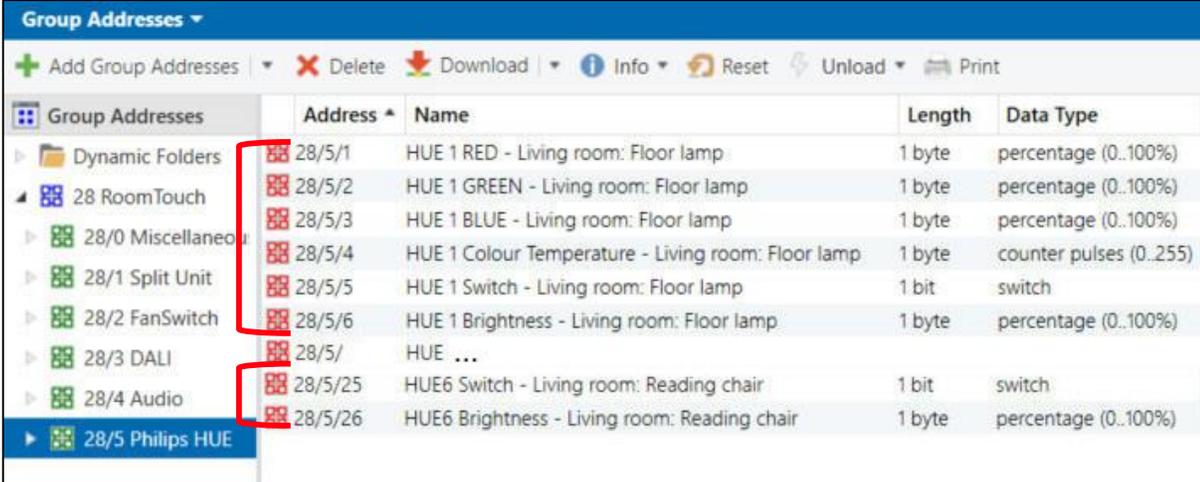
# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### ETS – ABB RoomTouch® KNX

Add group addresses:

- HUE device 01 White & Colour Ambiance: “Floor lamp”
  - RGB(W):
    - 28/5/1* “HUE 1 RED - Living room: Floor lamp”
    - 28/5/2* “HUE 1 GREEN - Living room: Floor lamp”
    - 28/5/3* “HUE 1 BLUE - Living room: Floor lamp”
    - 28/5/4* “HUE 1 COLOUR TEMPERAT. - Living room: Floor lamp”
  - Switch on/off:
    - 28/5/5* “HUE1 Switch - Living room: Floor lamp”
  - Dimmer value:
    - 28/5/6* “HUE 1 Brightness - Living room: Floor lamp”
- HUE device 06 White: “Reading chair”
  - Switch on/off:
    - 28/5/25* “HUE 6 Switch - Living room: Reading chair”
  - Dimmer value:
    - 28/5/26* “HUE 6 Brightness - Living room: Reading chair”



The screenshot shows the 'Group Addresses' table in the ETS software. The table has columns for 'Address', 'Name', 'Length', and 'Data Type'. A red box highlights the addresses 28/5/1 through 28/5/6, and another red box highlights 28/5/25 and 28/5/26. The '28/5 Philips HUE' folder is selected in the left sidebar.

Group Addresses	Address	Name	Length	Data Type
Dynamic Folders				
28 RoomTouch				
28/0 Miscellaneous				
28/1 Split Unit				
28/2 FanSwitch				
28/3 DALI				
28/4 Audio				
28/5 Philips HUE				
	28/5/1	HUE 1 RED - Living room: Floor lamp	1 byte	percentage (0..100%)
	28/5/2	HUE 1 GREEN - Living room: Floor lamp	1 byte	percentage (0..100%)
	28/5/3	HUE 1 BLUE - Living room: Floor lamp	1 byte	percentage (0..100%)
	28/5/4	HUE 1 Colour Temperature - Living room: Floor lamp	1 byte	counter pulses (0..255)
	28/5/5	HUE 1 Switch - Living room: Floor lamp	1 bit	switch
	28/5/6	HUE 1 Brightness - Living room: Floor lamp	1 byte	percentage (0..100%)
	28/5/	HUE ...		
	28/5/25	HUE6 Switch - Living room: Reading chair	1 bit	switch
	28/5/26	HUE6 Brightness - Living room: Reading chair	1 byte	percentage (0..100%)

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### ETS – ABB RoomTouch® KNX

- Drag a control element from the task bar to the field of the page
- Set the parameters
- Link group addresses
- Download individual address and application



The screenshot displays the ETS software interface for configuring a control element. The 'Parameter' section is highlighted with a red box, showing the following settings:

- Name of control element: Floor lamp
- Show value in Control:
- Type of Color/White lamp: RGB+WW/CW
- Controlling White via:  Objects warm/cold  Objects temperature/brightness
- Object Temperature:  DPT 1 byte  DPT 7.6 2-byte
- Switching On/Off via:  1 object  2 objects
- Brightness change [%]: 1
- Telegram is repeated every [s]: 0.5s
- Switched on -> preset value:
- Switched off -> RGB value 0,0,0:
- Enable communication object "Disable" 1 bit:

The 'Communication Objects' list shows the following objects:

- 658: Switch - output/input
- 660: Value Red - output/input
- 661: Value Green - output/input
- 662: Value Blue - output/input
- 663: Value RGB [3 byte] - output/input
- 667: Value Brightness - output/input
- 668: Value Temperature - output/input

The 'Group Addresses' list shows the following addresses:

- 28 RoomTouch
- 28/4 Audio
- 28/5 Philips HUE
- 28/5/1 HUE 1 RED - Liv
- 28/5/2 HUE 1 GREEN -
- 28/5/3 HUE 1 BLUE - Li
- 28/5/4 HUE 1 Colour Te

A red arrow points from the 'Communication Objects' list to the 'Group Addresses' list, indicating the linking process.

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### ETS – ABB RoomTouch® KNX

HUE device 01 White & Colour Ambiance: “Floor lamp”  
(colour control, switching and dimming)

- Control element “RGBW”
- Controlling White via: Objects temperature/brightness
- Object Temperature: DPT 1-byte
- Switching on/off via: 1 object
- ...



Start pages > Living room

Living room

Floor lamp Reading chair

Parameter

Name of control element Floor lamp

Show value in Control

Type of Color/White lamp RGB+WW/CW

Controlling White via  Objects warm/cold  Objects temperature/brightness

Object Temperature  DPT 1 byte  DPT 7.6 2-byte

Switching On/Off via  1 object  2 objects

Brightness change [%] 1

Telegram is repeated every [s] 0.5s

Switched on -> preset value

Switched off -> RGB value 0,0,0

Enable communication object "Disable" 1 bit

Communication Objects

- ▶ 658: Switch - output/input
- ▶ 660: Value Red - output/input
- ▶ 661: Value Green - output/input
- ▶ 662: Value Blue - output/input
- ▶ 663: Value RGB [3 byte] - output/input
- ▶ 667: Value Brightness - output/input
- ▶ 668: Value Temperature - output/input

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

### ETS – ABB RoomTouch® KNX

HUE device 06 White: “Reading chair”  
(switching and dimming)

- Control element “Dimmer” or “Dimmer slider”
- ...



Parameter	
Name of control element	Reading chair
Type of icons	<input checked="" type="radio"/> Standard <input type="radio"/> User-defined
Status of control (Icon) is controlled by separate object	<input type="checkbox"/>
Show value in Control	<input checked="" type="checkbox"/>
Status dim value is controlled by separate object	<input type="checkbox"/>
Unit	%
Slider sends	<input type="radio"/> When slider is released <input checked="" type="radio"/> cyclically
Brightness change [%]	1
Telegram is repeated every [s]	0.5s
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

Communication Objects	
679	Switch - output/input
680	Value - output/input

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

**Example: Assignment of Group Addresses – HUE dev.01 White & Colour “Floor lamp” and HUE dev.06 White “Reading chair”**

Type	Name	Sending GA	Status GA
<b>- ControTouch - Philips HUE</b>			
RGB(W)	HUE1 RGBCT - Bulb Living room floor lamp		
	Red (DPT 5.001)	HUE:1/R	HUE:1/R, 28/5/1
	Green (DPT 5.001)	HUE:1/G	HUE:1/G, 28/5/2
	Blue (DPT 5.001)	HUE:1/B	HUE:1/B, 28/5/3
	White (5.001)	HUE:1/CT	HUE:1/CT, 28/5/4
Switch (DPT 1.x)	HUE1 Switching - Bulb Living room floor lamp	HUE:1/S	HUE:1/S, 28/5/5
Dimmer (DPT 5.001)	HUE1 Brightness - Bulb Living room floor lamp	HUE:1/BRI	HUE:1/BRI, 28/5/6
...	HUE ...		
Switch (DPT 1.x)	HUE6 Switching - Bulb Living room reading chair	HUE:6/S	HUE:6/S, 28/5/25
Dimmer (DPT 5.001)	HUE6 Brightness - Bulb Living room reading chair	HUE:6/BRI	HUE:6/BRI, 28/5/26

Value Red (1 byte)	RGBW Control	ABB RoomTouch
Value Green (1 byte)		
Value Blue (1 byte)		
Value RGB (3 byte)		
Value Temperature (1 byte)		
Switch (1 bit)		
Value Brightness (1 byte)	Dimmer	ABB RoomTouch
...		
Switch (1 bit)		
Value (1 byte)		
...		

Busch-ControlTouch® KNX – “MyBuildings” portal: Group addresses

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

**Example: Assignment of Group Addresses – HUE dev.01 White & Colour “Floor lamp” and HUE dev.06 White “Reading chair”**

Type	Name	Sending GA	Status GA
- ControTouch - Philips HUE			
RGB(W)	HUE1 RGBCT - Bulb Living room floor lamp		
	Red (DPT 5.001)	HUE:1/R	HUE:1/R, 28/5/1
	Green (DPT 5.001)	HUE:1/G	HUE:1/G, 28/5/2
	Blue (DPT 5.001)	HUE:1/B	HUE:1/B, 28/5/3
	White (5.001)	HUE:1/CT	HUE:1/CT, 28/5/4
Switch (DPT 1.x)	HUE1 Switching - Bulb Living room floor lamp	HUE:1/S	HUE:1/S, 28/5/5
Dimmer (DPT 5.001)	HUE1 Brightness - Bulb Living room floor lamp	HUE:1/BRI	HUE:1/BRI, 28/5/6
...	HUE ...		
Switch (DPT 1.x)	HUE6 Switching - Bulb Living room reading chair	HUE:6/S	HUE:6/S, 28/5/25
Dimmer (DPT 5.001)	HUE6 Brightness - Bulb Living room reading chair	HUE:6/BRI	HUE:6/BRI, 28/5/26

Value Red (1 byte)	RGBW Control	ABB RoomTouch
Value Green (1 byte)		
Value Blue (1 byte)		
Value RGB (3 byte)		
Value Temperature (1 byte)	Dimmer	
Switch (1 bit)		
Value Brightness (1 byte)		
...		
Switch (1 bit)		
Value (1 byte)		
...		

Busch-ControlTouch® KNX – “MyBuildings” portal: Group addresses

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

**Example: Assignment of Group Addresses – HUE dev.01 White & Colour “Floor lamp” and HUE dev.06 White “Reading chair”**

Type	Name	Sending GA	Status GA
<b>ControTouch - Philips HUE</b>			
RGB(W)	HUE1 RGBCT - Bulb Living room floor lamp		
	Red (DPT 5.001)	HUE:1/R	HUE:1/R, 28/5/1
	Green (DPT 5.001)	HUE:1/G	HUE:1/G, 28/5/2
	Blue (DPT 5.001)	HUE:1/B	HUE:1/B, 28/5/3
	White (5.001)	HUE:1/CT	HUE:1/CT, 28/5/4
Switch (DPT 1.x)	HUE1 Switching - Bulb Living room floor lamp	HUE:1/S	HUE:1/S, 28/5/5
Dimmer (DPT 5.001)	HUE1 Brightness - Bulb Living room floor lamp	HUE:1/BRI	HUE:1/BRI, 28/5/6
...	HUE ...		
Switch (DPT 1.x)	HUE6 Switching - Bulb Living room reading chair	HUE:6/S	HUE:6/S, 28/5/25
Dimmer (DPT 5.001)	HUE6 Brightness - Bulb Living room reading chair	HUE:6/BRI	HUE:6/BRI, 28/5/26

Value Red (1 byte)	RGBW Control	ABB RoomTouch
Value Green (1 byte)		
Value Blue (1 byte)		
Value RGB (3 byte)		
Value Temperature (1 byte)		
Switch (1 bit)		
Value Brightness (1 byte)		
...		
Switch (1 bit)	Dimmer	
Value (1 byte)		
...		

Busch-ControlTouch® KNX – “MyBuildings” portal: Group addresses

# Busch-ControlTouch® KNX – Philips HUE Integration

## Commissioning

**ABB RoomTouch – HUE device 01 White & Colour “Floor lamp” and HUE device 06 White “Reading chair”**



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# Busch-ControlTouch® KNX – Philips HUE Integration

Online Learning Session

# Busch-ControlTouch® KNX – Philips HUE Integration

## Online Learning Session

### Homepage

[www. www.abb.com/KNX](http://www.abb.com/KNX)

- Products and Downloads
  - Visualisation, Display and Signalling
    - Touch Panels RT/U
    - Busch-ControlTouch® KNX 6136/APP-500
- Product Manual
- Installation and Operating Instructions
- ETS Application (\*.knxprod)
- ETS App ABB Touch DCA (\*.etsapp)
- Webinar recordings and presentations
- ...

**ABB** PRODUCT-DETAILS

You can view this page in: EN DE SV FI CS DA EL ES FR HU IT JA KO NL NO PL PT RU SK TR ZH

### Detailed information for: RT/U30.0.1-811

This page contains technical data sheet, documents library and links to offering related to this product. [Print...](#)  
If you require any other information, please contact us using form located at the bottom of the page. [Print to Pdf...](#)

Data Sheet Downloads

#### Downloads for Touch Panels

Available documents: [Advanced search](#) [Documents in all languages](#)

Show all (20)

- Advertisement (3)
- Certificate (1)
- Declaration of conformity (1)
- Instruction (1)
- Manual (1)
- Movie (6)
- Operating Instruction (1)

Installation Instruction (.PDF) [XX] RoomTouch 5" RT-U30.0.x  
Summary: V1-1  
Instruction - English - 2020-10-09 - 1.14 MB PDF

ETS Applicat  
Summary: V  
Software - G  
MB

Release Note  
Summary: R  
Release note

Video (EN) [M  
Summary: N  
Movie - Eng

### Detailed information for: 6136/APP

This page contains technical data sheet, documents library and links to offering related to this product. [Print...](#)  
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Data Sheet Downloads

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- Brochure (2)
- Certificate (1)
- Manual (1)
- Movie (7)
- Presentation (16)
- Product guide (1)

Webinar (.MP4) [EN] Busch-ControlTouch® – Philips HUE Integration  
Summary: No summary available  
Movie - English - 2020-11-19 - 1,23 MB MP4

Webinar (.PDF) [EN] Busch-ControlTouch® – Philips HUE Integration  
Summary: No summary available  
Presentation - English - 2020-11-19 - 0,20 MB PDF

Webinar (.PPT) [EN] Busch-ControlTouch® – Philips HUE Integration  
Summary: No summary available  
Presentation - English - 2020-11-19 - 0,69 MB - [For approved users only](#) PPTX

Flyer (.PDF) [EN] IoT Dashboard  
Summary: No summary available  
Brochure - English - 2020-07-17 - 0,32 MB PDF



# Busch-ControlTouch® KNX – Philips HUE Integration

## Online Learning Session

### Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of on-site trainings conducted by our specialists at different ABB training facilities

In this Training & Qualification Calendar you can find the educational events that are taking place during 2020

If you are interested in a training please click the training and you will be forwarded to register in “ABB MyLearning”

[www.abb.com/knx](http://www.abb.com/knx) or <https://go.abb/ba-training>

→ Services & Tools

→ Training and Qualification

→ Training Calendar

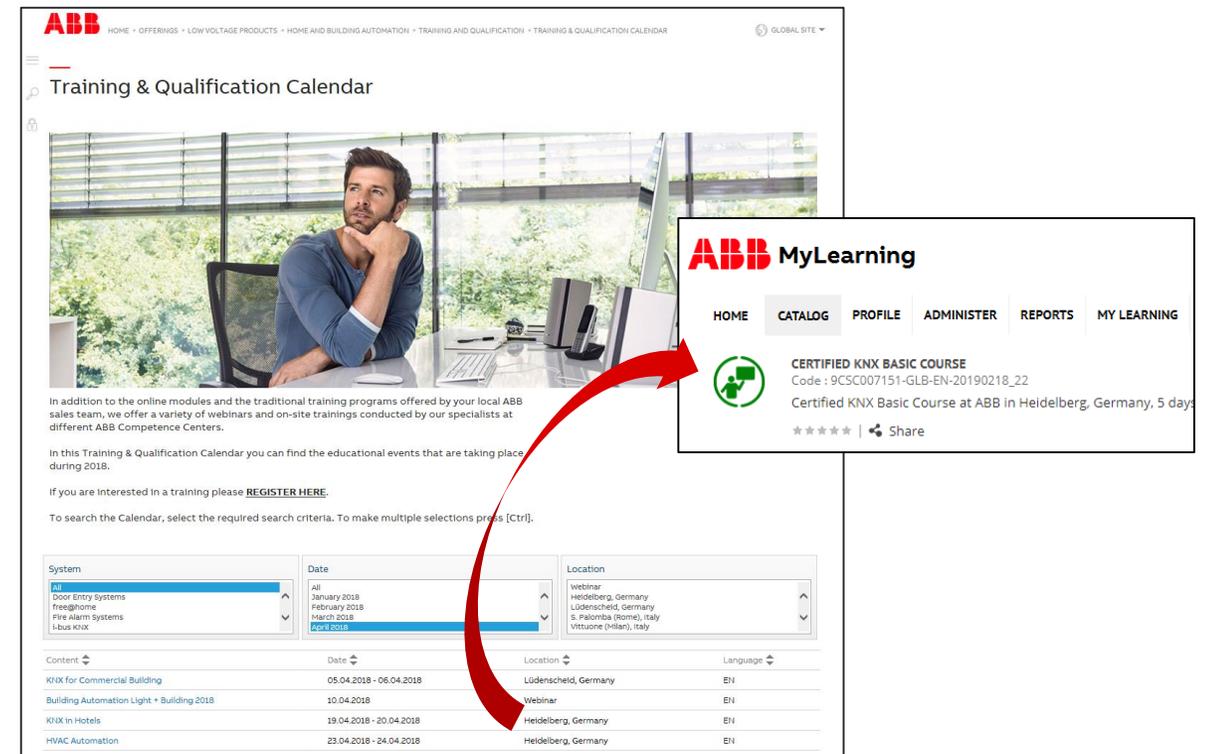


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### Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of webinars and on-site trainings conducted by our specialists at different ABB Competence Centers.

In this Training & Qualification Calendar you can find the educational events that are taking place during 2018.

If you are interested in a training please [REGISTER HERE](#).

To search the Calendar, select the required search criteria. To make multiple selections press [Ctrl].

System	Date	Location
All	All	Webinar
Door Entry Systems	January 2018	Heidelberg, Germany
Free@home	February 2018	Lödenscheid, Germany
Fire Alarm Systems	March 2018	s. Palomba (Rome), Italy
I-bus KNX	April 2018	Virtuone (Milan), Italy

Content	Date	Location	Language
KNX for Commercial Building	05.04.2018 - 06.04.2018	Lödenscheid, Germany	EN
Building Automation Light + Building 2018	10.04.2018	Webinar	EN
KNX in Hotels	19.04.2018 - 20.04.2018	Heidelberg, Germany	EN
HVAC Automation	23.04.2018 - 24.04.2018	Heidelberg, Germany	EN

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**CERTIFIED KNX BASIC COURSE**  
Code : 9CSC007151-GLB-EN-20190218\_22  
Certified KNX Basic Course at ABB in Heidelberg, Germany, 5 days  
★★★★★ | Share

# Busch-ControlTouch® KNX – Philips HUE Integration

## Online Learning Session

### KNX Certified Trainings 2020

Certified KNX Courses in Heidelberg

- Advanced Course: 13<sup>th</sup> to 17<sup>th</sup> Jul.
- Tutor Course: 19<sup>th</sup> to 23<sup>rd</sup> Oct.
- Basic Course : 16<sup>th</sup> to 20<sup>th</sup> Nov.
- Followed by two day application training

And many more training courses in the calendar  
“International Training Dates 2020”

[www.abb.com/knx](http://www.abb.com/knx) or <https://go.abb/ba-training>

**has to be postponed ...  
Information will follow**



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