



# u::Lux Switch digitalSTROM

## Manual

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## General Information

The u::Lux Switch dS is an intelligent room controller for building automation. The switch can be used for flexible operation of electrical systems such as multimedia, lighting, shading, heating, ventilation and alarm system. Temperature, humidity and/or the CO2 content of the air can also be shown on the display as well as user-defined alarms, information and weather service. The switch offers also the possibility to acoustically and visually report fault or alarm messages.

The integration of the u::Lux Switch dS is available on the dSS20 / 22, dSS-IP and dSS11-E. The dSS11-1GB does not support this feature.

Please find further information on functions, configuration and FAQs under <http://www.u-lux.com/en/products/10230/servicepage/>



## Mounting

The *u::Lux Switch dS* consists of the *u::Lux NetLink dS* and the *u::Lux Display*.

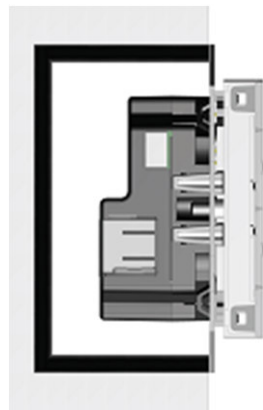
The *u::Lux NetLink dS* is delivered in a pre-installed metal assembly frame.

The device fits into a 50mm flush-mounting where it has to be fixed (screwed tightly) with the metal assembly frame.



Electronic-flush-mounting box

Before mounting, please ensure that the used flush-mountings are vertical and flat (plane) to the wall.



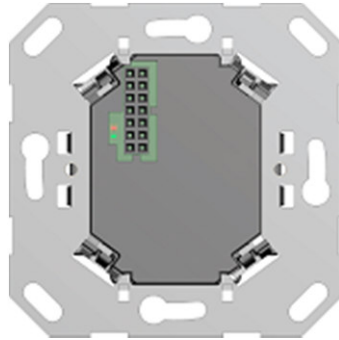
Flush-mounting installed correctly



Flush-mounting incorrectly installed

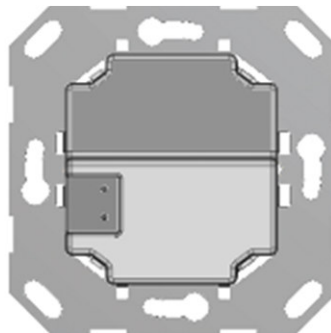


Please note the correct mounting position according to the sketch.



*u::Lux NetLink dS – front view (mounting position)*

For the electrical connection only L (phase) and N (neutral) is needed.

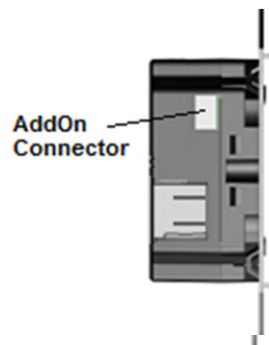


*u::Lux NetLink dS – rear view*

After the electrical connection and after switching on the power supply the device automatically logs on to the so-called digitalSTROM Meter in the power distribution panel. Then the device is immediately ready for use. For installation and commissioning please note the indications for planning and installation in the digitalSTROM installation manual!



Optionally there are extensions (e.g. temperature sensor) available. For this reason there is a plug connector provided laterally on the *u::Lux dS*. Please inform yourself on our website about the possibilities with our *u::Lux AddOn* modules.



*u::Lux-Net Link dS* – side view

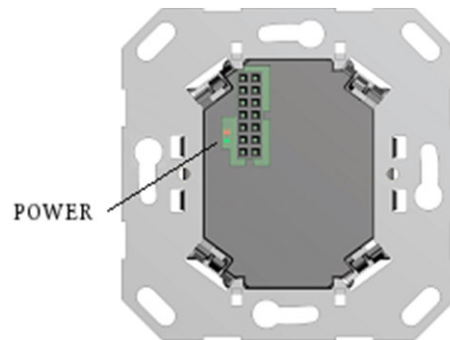
## Mounting order

1. Draw in the 230V-cable and cut to length.
2. Attach the *u::Lux NetLink dS* to these cables (N,L)
3. Connect extensions (optionally).
4. *Fix the u::Lux NetLink dS* with bolts to the flush-mounting.



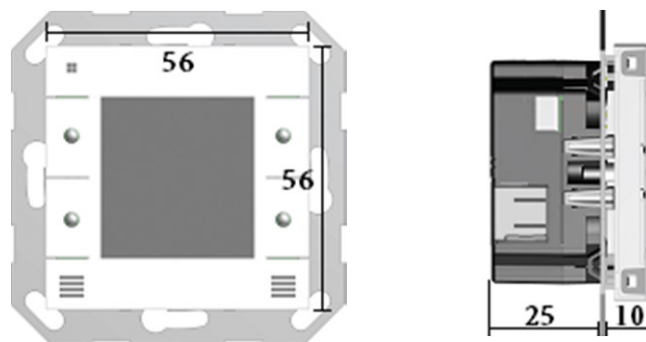
## Startup

On the *u::Lux NetLink dS* there is one LED visible (for diagnostic purposes) in the installed status. This green LED (POWER) illuminates as soon as the *u::Lux NetLink dS* gets provided with energy. Therefore a connection to 230V is required.



*u::Lux NetLink dS* – front view

The *u::Lux Display* has to be placed in an appropriate frame cover before it gets attached to the *u::Lux NetLink dS*. The frame cover is not included in the scope of delivery from the *u::Lux Switch*. Matching frame systems are frame covers in the so-called frame system 55 (opening approx. 56mm). On our homepage you will find a preliminary list of individual manufacturers and model designations. Then the *u::Lux Display* combined with the frame cover has to be attached to the *u::Lux NetLink dS*.



*u::Lux Switch dS* – front view, side view and measurements (without aperture system)



## Startup order

1. Connect the *u::Lux NetLink dS* to the 230V cable.
2. Mount the *u::Lux NetLink dS* in a flush-mounting.
3. Provide the *u::Lux NetLink dS* with 230 V voltage.
4. Check the green LED at the *u::Lux NetLink dS*.
5. Switch off the 230V voltage.
6. Place the *u::Lux Display* in an appropriate frame cover and attach both to the *u::Lux NetLink dS*.
7. Through the *u::Lux digitalSTROM App* the *u::Lux Switch dS* can be configured in the *digitalSTROM-configurator*.





## Internal components

The *u::Lux Display* contains the following functional groups:

### Display

High-resolution graphic display with a visible resolution of 176x184 pixels and 262.144 colours, currently 65.536 colours are used.

### Keys

All 4 keys have a mechanical pressure point. Basically they serve to transmit the switching commands (e.g. light on, light off), and the setting of parameters (e.g. temperature specifications for heating regulation) or they also serve to select a submenu.

### RGB LED

One LED is assigned to each push button. By using the RGB LED there can be created mixed colours like yellow, magenta, cyan and white, additionally to the 3 basic colours red, green and blue.

### Infrared receiver / infrared sensor

The *u::Lux Switch* includes an infrared transmitter (emitter) and an infrared receiver (detector). The infrared transmitter is basically needed as a source of infrared for the proximity sensor. The infrared receiver detects signals of an infrared remote control and is used as detector for the proximity sensor.

### Brightness sensor

Valid until *u::Lux Switch* serial number 2699: The brightness sensor detects light intensity of more than 500 lux in the wavelength range from approx. 450nm until approx. 850nm (visible light).

Valid from *u::Lux Switch* serial number 2700: The brightness sensor detects light intensity until 65536 Lux (also depending on the installation situation) in the wavelength range from approx. 450nm until approx. 850nm (visible light).

### Loud speaker

The loud speaker or amplifier of the loud speaker is designed for a short period maximum power output of 0,5W.



## Technical data

The data refer to the *u::Lux Switch dS* which consists of the *u::Lux NetLink dS* & *u::Lux Display*.

<i>Supply:</i>	through 230Volt AC / 50Hz / 0,3Amax
<i>Power consumption:</i>	min 1,5 W, max. 2,5 W, typ 2 W (Display on)
<i>Connection (NetLink dS):</i>	1 x 230Volt AC / 50Hz / 0,3Amax
<i>Notification (NetLink dS):</i>	1 x LED (green) for energy supply
<i>Network:</i>	digitalSTROM
<i>Display:</i>	TFT, 184x176 pixels, 262.144 colours, therefrom used 65.536
<i>Ambient temperature:</i>	-10 °C to +40°C
<i>Storage temperature:</i>	-30 °C to +80°C
<i>Protection type:</i>	IPX0
<i>Installation depth:</i>	suitable for 50mm flush-mounting
<i>Installation dimensions:</i>	suitable for 56mm x 56mm aperture systems

## Hazard warnings

Attention! Assembly and installation of electrical devices may only be performed by a qualified electrician. Strictly observe the prevailing accident prevention measures. Failure to observe the installation instructions may result in damage to the device, fire or other dangers.

## CE – marking

The CE marking is exclusively addressed to the governmental supervising authorities of the Member States and facilitates the free movement of goods. The CE marking does not represent any guarantee of specific features.

## Guarantee

The guarantee complies with the statutory requirements. Technical changes and error reserved.

# u::Lux Switch digitalSTROM - Manual



## Ordering information

*u::Lux Switch dS*

Order.Nr. 10230



## Version Management

Version	Date	Name	Note
1.00	06.11.2018	KH	Creation of the document
1.01	30.01.2019	CB	Divers
1.02	16.05.2019	CB	Chapter General Information
1.03	26.03.2021	CB	Update brightness sensor, ordering information
1.04	30.03.2021	CB	Anti-theft screws deleted