

CTA.UID UNIVERSAL INTERFACE DEVICE



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The Universal Interface Device enables the user to use a switch as an override device.

The Universal Interface Device supports seamless communication with other Controlux devices/products, such as Motion Sensor and Gateway, and can be managed remotely via Controlux Air CityManager.

The CTA.UID can fit into several user applications where an override of a standard lighting profile is desired, such as emergency conditions or a temporary change of the lighting levels.

The override switch (**supplied by others**) can be installed remotely as far as there is a valid and safe electrical connection to the CTA.UID.

features

- Override commands issued via the Controlux Air wireless network
- Remote management and control via CityManager and third-party software
- Advanced dimming and adaptive lighting schedules
- Able to interface with third party systems
- Automatic failure and status reports via CityManager
- Plug-and-play installation



specifications

product

- In-built wireless communication, lighting control, and external sensor interface
- Model B: 5.5 m pre-connected power cable for ease of installation

input voltage

- 230 VAC (Model A PR151083 - Model B PR161195) or
- 115 VAC (Model A PR151115 - Model B PR161196), 50/60 Hz (normal power grid)

wireless control

- Remote on/off/dimming
- Grouped Scheduling

power consumption

- <2W

surge protection

- 110 joules (6 Ka)
- 12 kV combination wave

controller

- ARM Cortex-M3 CPU

electrical safety

- Galvanic isolation between high-voltage and low-voltage terminals

operating conditions

- -20 °C to +70 °C ambient
- 20% to 90%, Rh non-condensing

housing

- IP65

antenna

- External antenna

dimensions

- 230mm x 130 mm x 90 mm

product compatibility

- Direct wireless communication with Controllux Air and Gateway, communication with CityManager—through Gateway

external sensor integration

- I²C interface to connect third-party external sensors

wireless communication

- 2.4 GHz IEEE 802.15.4 self-forming, self-healing wireless network
- +10 dBm max. transmit power, -98 dBm max. receiver sensitivity
- Up to 1 km open field range
- Up to 250 kbps microcontroller RF data rate
- 32-bit microcontroller, 64 kB Flash and 16 kB RAM

network security

- 128 AES
- Multi-layer security with end-to-end encryption

over-the-air update

- Configurations and software can be updated remotely, ensuring an up-to-date network infrastructure

device to gateway ratio remote monitoring

- 200:1

safety mode

- Via CityManager or similar third-party management software. CityManager enables remote management, monitoring, control, and configuration of lamps on individual and group level.

certification

- Auto-safe: in a case of Gateway failure, all lamps go back to the highest pre-programmed level of brightness. In a case of the controller failure, the lamp goes back to the 100% brightness.
- RoHS, CE, EN301489-1/3, EN61547, EN55015, EN300328, EN60950, EN550121-5
- RF transceiver compliant with US (FCC), Canadian (IC), European (ETSI), and Japanese (Telec) standards

manufacturing

- ISO 9001:2008, Made in Europe



Programming

With the CityManager Software we can assign “override mode” to the respective node inside the CTA.UID.

Functionality

Once the button is pushed, all the light points in the network (connected to the same Gateway) will go to 100%, in override mode.

Once the button is pushed again, it will return to its normal state and behaviour.

Common applications

The CTA.UID can fit into several user applications where an override of a standard lighting profile is desired, such as emergency conditions or a temporary change of the lighting levels.

The override switch can be installed remotely as far as there is a valid and safe electrical connection to the CTA.UID.