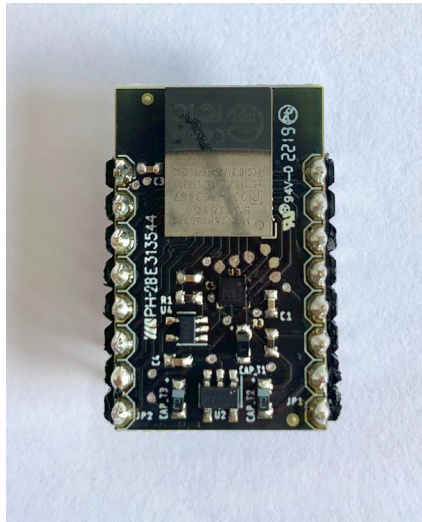


CONTROLLERS

Last update: 01/09/2019

BCT01x / A01x



The BCT01x/A01x are electronic boards featuring our proprietary wireless technology to control our wireless enable dimmers by touch or position detection. Designed for battery powered applications, they represent a compact and ready to use solution for controlling our wireless enabled dimmers.

Small in size and designed for battery powered applications, they are meant to be integrated in a custom enclosure.

Available with pre-developed firmware options, *TOUCH*, *CUBE* and *FLIP*, behaviour can be customised upon request. In addition, all controllers can eventually be integrated with a customer's electronic system.

Hardware variants

BCT01x

The BCT01x is an electronic board featuring our wireless technology to control our wireless enable dimmers by capacitive touch detection.

BCA01x

The BCA01x is an electronic board featuring our wireless technology to control our wireless enable dimmers by position detection implemented via a cutting edge accelerometer.

Firmware options (Dimming)

a) TOUCH

This firmware option is available only for BCT01x variant. A wireless command is sent to all receiving dimmers at each touch event. The command represents the desired light intensity level. Resulting duty cycle value depends on the dimmer that received the command.

Touch #	Command
Touch #1	LOW
Touch #2	MID
Touch #3	HIGH
Touch #4	OFF

Sequence, number of steps and dimming levels can be customised upon request.

b) CUBE

This firmware option is available only for BCA01x variant. A wireless command is sent to all receiving dimmers every time a new position is detected. Position is detected on 3 axis with geometrical shape of a cube resulting in 6 faces. The command represents the desired light intensity level. Resulting duty cycle value depends on the dimmer that received the command.

Position / cube faces	Command
Face 1	OFF
Face 2	LOW
Face 3	MID LOW
Face 4	MID HIGH
Face 5	HIGH
Face 6	OFF

Sequence, number of steps and dimming levels can be customised upon request.

c) *FLIP*

This firmware option is available only for BCA01x variant. A wireless command is sent to all receiving dimmers every time a new position is detected. Position is detected on 1 axis only resulting in 2 faces (face up and face down). The command represents the desired light intensity level. Resulting duty cycle value depends on the dimmer that received the command.

Position	Command
Face up	ON
Face down	OFF

Sequence, number of steps and dimming levels can be customised upon request.

Main features

- Based on a SoC with radio-microcontroller and built-in antenna;
- Implements a 2.4GHz wide spectrum proprietary protocol;
- Based on a cutting edge accelerometer chip (BCA01x variant);
- Capacitive touch input on single core wire: length and connection type specified on order (BCT01x variant);
- Firmware flexibility.

Mechanical and temperature characteristics

- Board dimensions: 25mm x 10mm x 3mm;
- Terminals length: 150mm;
- Two holes for screw connection;
- Two pads for battery terminals;
- Temperature range: -40 to 85°C.

Certifications

- RoHS compliant;
- CE certified;
- SoC fully FCC certified (wireless variant);
- SoC fully IC certified (wireless variant);
- SoC fully IMOC certified (wireless variant);
- SoC fully TELEC certified (wireless variant).