

# e-Bus Coupling DALI

Bus Coupling Unit with DALI-2 protocol for **e-Touch** touch switch products

**e-Bus Coupling DALI** is a bus coupling unit to connect any touch switch of the product family e-Touch Flexi or e-Touch Panel to the DALI lighting control bus, to be part of a device network managed by a DALI gateway or controller with DALI-2 protocol based. The bus coupling unit is automatically configured according to the touch switch connected to it, defining the number of instances that can be programmed from the DALI controller using the controller's software application.

## Product description

The **e-Bus Coupling DALI** coupling unit is a communication interface to connect any touch switch of **e-Touch Flexi** or **e-Touch Panel** product family to the DALI-2 bus. The device requires a DALI-2 gateway or controller as a master unit, that will execute the messages sent by every touch switch-bus coupler to the communication bus. The device is compatible with any of the e-Touch family products, and is automatically configured according to the number of touch zones or buttons of each touch panel. Each touch switch has a predefined number of touch zones and Led indicators with a different arrangement (for more information read the instruction sheet of each touch switch). According to the DALI 2 protocol, this device is identified as an IEC62386-301 Push Button device with a number of instances equal to the number of touch zones of the touch switch connected.

### "State" Led indicator

The device has a led indicator in front of it marked as "State" that indicates the operating state of the device. When the touch switch is not connected to the bus coupling unit, the led indicator flashes every 5 seconds, indicating that it works correctly.

When powering the device and the bus coupling unit has detected a touch switch connected to it, the led indicator will light up during 2 seconds and then will blink when transmitting or receiving DALI messages. This sequence can be seen if the touch switch is mounted temporarily without the frame.

### "SL" Led indicator

The device has a led indicator in the side of the box, marked as SL, that shows the DALI bus activity.

## Device configuration in the DALI bus

**IMPORTANT:** Before starting the configuration process, check that a touch switch is connected to the device.

Once the device is installed, start commissioning it in the DALI bus. To do this, launch the "scan" function in the software application of the DALI-2 gateway/controller previously selected. When the "scan" function has finished, all the e-Bus Coupling units with the touch switch connected, will appear in the application. Then, proceed to commission the device according to the application of the DALI-2 controller manufacturer.

For more information regarding the configuration of the device, read the instruction sheet of the **e-Touch Flexi** or **e-Touch Panel** touch switch.

### Identifying the device in the DALI bus

The "wink" command of the DALI protocol is used to identify the device during the commissioning process. Upon receiving this command, the led indicator number 1 of the touch switch will blink during 30 seconds.

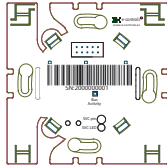
### Changing the touch switch by another model

In case it is necessary to change the touch switch configured, by another model, a reconfiguration process must be done. To do this, unconfigure the bus coupling unit from the DALI-2 controller (Unassign function), disconnect the DALI-2 supply power, remove the touch switch and connect the new model, apply power supply again, and start again the configuration process (Scan).

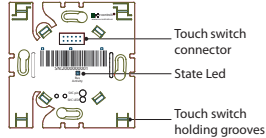
NOTE: The replacement of one touch switch by another one of the same model does not require any reconfiguration.

# Instruction sheet

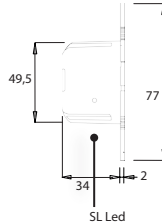
EN



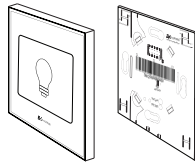
## Front view



## Lateral view



## Assembly



## Product installation

Read carefully the installation steps of the device explained below.

### Important:

- In order to do the **e-Bus Coupling DALI** operational, any **e-Touch Flexi** or **e-Touch Panel** device must be connected to the device.
- Follow the recommendations of the DALI-2 standard for the wiring installation in the building.

### Mounting steps of the device:

- Disconnect the DALI supply power.
- Connect the DALI wiring to the DA and LN terminals. The DALI bus does not have polarity.
- Fix the device to the enclosure with the screws. If an e-Touch Panel is going to be used, fix also the adapter provided with the touch switch, inserting the two notches of the adapter to the frame, so that the touch switch can be clipped with its four ends.
- Assemble the plastic frame on the touch switch paying attention that the ventilation slots are in the lower and upper left side.

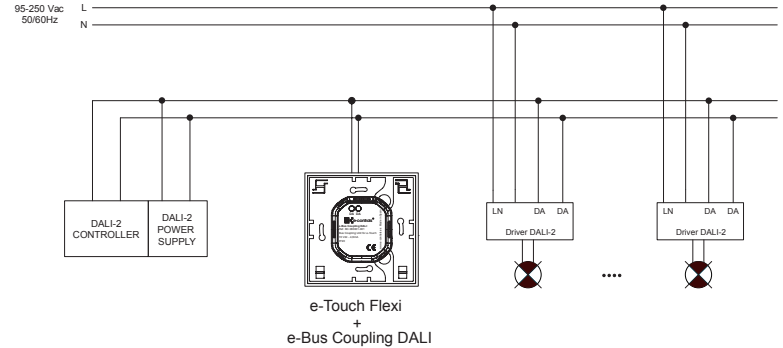
## Product installation (continue)

- Insert the e-Touch Flexi or e-Touch Panel into the holes of the front connector on the bus coupling unit, until the white clips of the touch switch match the ones of the bus coupler, and press until the frame will be firmly fixed to the wall and pressed by the keypad.
- Apply power to the DALI bus and check that any of the blue leds of the touch switch blinks.
- Proceed to configure the device according to the steps defined in the "Configuration" section.

### Caution:

- Disconnect the power supply before mounting or moving the device.
- Do not leave cables peeled or turned around the device.
- Do not connect the device with the hands wet.
- Do not open or hole the device.
- Keep the device and cables away from humidity and dust.
- Clean the front cover with a water moisture soft cloth.

## Installation drawing



Install the electrical connections and the corresponding cable according to the rules of every country.

## Technical features

### Supply Power

Operating voltage. . . . . 16 Vcc ± 30%  
 Maximum rated current (without touch switch) . . . . . 5,8 mA  
 NOTE: Use only a DALI-2 power supply to power the device.

### Communications

Technology . . . . . DALI-2  
 Standard . . . . . IEC 62386-101 ed2, 103 ed1 (input device), 301 ed1 (digital inputs), 332 (feedback)  
 Interface . . . . . DALI  
 Communication speed. . . . . 1200 bps

### "State" Led indicator

Functionality. . . . . Device status  
 DALI bus activity. . . . . Red

### SL Led indicator

Functionality. . . . . DALI bus activity (blinking)  
 Colour . . . . . Yellow

### Commissioning in DALI network (\*)

Unique identifier at learning time  
 Front led blinks every second in Wink state  
 GTIN unique identification code . . . . . 8435483900165

### Temperature values

Operating . . . . . 0°C to +50°C (32°F to 104°F)  
 Storage. . . . . -20°C to +85°C (-4°F to +185°F)

### Humidity (no condensation)

Operating . . . . . 10% to 90% RH at 50°C  
 Storage. . . . . 95% RH at 50°C

### Mechanical installation

Installation type . . . . . Flush mounting  
 Enclosure . . . . . European universal  
 Recommended mounting height . . . . . 1 m or 1,5 m (depending on e-Touch model)

### Mechanical features

Dimensions . . . . . 77x77x36mm  
 Weight. . . . . 65 gr  
 Colour (frontal). . . . . RAL 9016  
 Enclosure material . . . . . PP  
 Cable section . . . . . 0,5 mm2 - 2,5 mm2 (14 AWG)  
 Terminals . . . . . Screw type  
 IEC protection . . . . . Class III  
 Protection degree. . . . . IP20 (EN 60529:1991)

### CE Conformity

Mark . . . . . CE

### Applicable harmonized standards

Product standard . . . . . EN 60730-1:2011  
 Electrical security . . . . . EN 60730-1:2011  
 Electromagnetic compatibility. . . . . EN 61000-6-3  
 EN 61000-6-1

(\*) Refer to the DALI-2 gateway installation manual for the commissioning process.

## Ordering numbers

**e-Bus Coupling DALI**, Bus Coupling Unit for DALI protocol, for e-Touch Flexi and e-Touch Panel . . . . . .BC.080001-001

The package of this product is considered as industrial packaging intended for professional use only. The manufacturer is not responsible of the incorrect installation or use of the product. Specifications are subject to change without notice.

