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e-Bus Coupling DALI Master

Bus coupling unit DALI Master for e-Touch touch switch products e-Bus Coupling DALI Master is a bus coupling unit with all the functions included to do a direct control of DALI luminaries without adding any additional

controller or Gateway. The device is used to connect any touch switch of the family e-Touch Flexi or e-Touch Panel to the DALI lighting control bus to do the control functions of switch on, off, dimming or scene control per luminaries, groups or all luminaries in the bus.

The bus coupling unit is powered directly at mains and includes a DALI power supply that provides current for the bus operation.

The device is configured directly by NFC with the **eConfigurator** APP, available for Android in the Play Store.

Product description

e-Bus Coupling DALI Master is a bus coupling unit DALI master that includes all the lighting control functions like switch on, switch off, light dimming and scene control, over one luminary, a group of luminaires or all the luminaires connected to the DALI bus. The device is including the control for single colour luminaires, with temperature control, RGB or RGBW type, with or without dimming, and is used in combination of any touch switch e-Touch Flexi or e-Touch Panel to connect over the DALI bus. The coupling unit is powered directly at mains and is including an internal DALI power supply to power the communication bus and the luminaires connected to the bus, so that it's not necessary to add any other element for its operation. The device is configured through the wireless NFC technology with the eConfigurator APP, available for Android in Google Play Store.

Lighting Control Functions

The device includes all the functions to control the luminaires connected to the DALI bus. The following list shows the lighting control functions available:

- · Switching on and off.
- · Light dimming (increment, decrement).
- · Set a light level.
- · Reproduce a lighting scene
- · Adjust the colour temperature (more cold, more warm)
- · Set a colour temperature.
- · Set a colour temperature and a light level
- Set an RGB colour and a white colour (RGBW)
- · Set an RGB colour, a white colour and a light intensity
- Dim any RGBW colour separately

NOTE: Temperature colour functions and RGB functions operate using driver type DT8.

All the explained functions can be executed using one of the three following control functions:

- · Over all luminaires connected to the bus (Broadcast)
- · Over a group of luminaires previously defined (Group)
- · Over a single luminary (Short Address)

In order to do the control over a group of luminaires (Group) or over a single luminary (Short Address) it is mandatory to previously configure the luminaries using a DALI configuration tool available in the market through any DALI driver manufacturer.

Switch off timer

The device is including a timer to configure lights to automatically switch off.

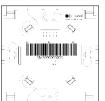
The device has a led indicator in front of it marked as "State" that indicates the operating state of the device. When the touch switch is not connected to the bus coupling unit, the led indicator flashes every 5 seconds, indicating that it works correctly.

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.

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

Instruction sheet





Lateral view Front view Touch switch 49,5 Assembly

Device configuration in the DALI bus

The device is configured through the e-Touch switch, using a mobile phone with Android operating system that has the NFC wireless technology, and with the eConfigurator APP available in Google Play Store.

The technology developed by E-Controls allows configuring the device even without being powered. This is especially useful if you want to configure the device before installing it. To do this, the project configuration should be done using the eConfigurator application and it will be downloaded over a touch switch. After this the touch switch will be connected to the coupling unit and power will be applied. In this moment the touch switch will transfer all the project to the

In order to configure the functions of every button, follow the steps indicated in the eConfigurator user manual.

If you want to do a Group lighting control or a single luminary control, a previous commissioning of the DALI luminaires with a standard tool has to be performed, using any standard DALI tool of any driver manufacturer of the market. The e-Touch switch will not be configured using this tool. NOTE: The replacement of a touch switch requires reconfiguring the new e-Touch switch with the same project that was previously used to configure the last one.

Product installation

Read carefully the installation steps of the device explained below.

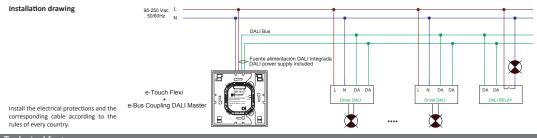
- . In order to do the e-Bus Coupling DALI operational, any e-Touch Flexi or e-Touch Panel device must be connected to the device.
- · Follow the recommendations of the DALI standard for the wiring installation in the building.

Mounting steps of the device:

- Disconnect the mains power from the device.
- Connect the bus coupling unit following the installation drawing.
- 3. Connect the DALI bus to the luminaires of the installation, taking care not to exceed the maximum current provided by the DALI power supply.
- 4. 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.
- 5. Assemble the plastic frame on the touch switch paying attention that the ventilation slots are

- in the lower and upper left side.
- 6. 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 device and check that any of the blue leds of the touch switch blinks.
- 8. Proceed to configure the device according to the steps defined in the "Configuration" section.

- 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.



Technical features

Supply Power

Supply Power	iviec
Operating voltage	Ins
Maximum rated current (without touch switch)	End
Power supply DALI Output	Rec
Type	Mec
Maximum DALI voltage	Dir
Minimum DALI voltage	We
Maximum output current	Col
Shorcircuit current	End
Protected against overcurrents, overvoltages and overtemperature	Cal
(*) Note: Terminal "- DA" is internally conected to terminal "N".	Ter
Communications	IEC
Technology	Pro
Standard	CEC
Interface	Lov
Communication speed	Ele
Auxiliary Input (actually not used)	Ma
Quantity	App
Type	Pro
Terminals	Ele
"State" Led indicator	Ele
Functionallity	
DALI bus activity	
SL Led indicator	О
Functionallity	U
Colour Yellow	e-Bu
Temperature values	e-Du
Operating	
Storage20°C to +85°C (-4°F to +185°F	
Humidity (no condensation)	Th
Operating	The pa
Storage	Specif

Mechanical installation

installation type				. Flush mounting
Enclosure			E	uropean universa
Recommended mo	unting height.	1	m or 1,5 m (depending of	on e-Touch model)
Mechanical feature	s			
Dimensions				77x77x36mm
Weight				65 gı
C 1 (C . D				DA1 0044

Colour (frontal)	
Enclosure material	
Cable section	
Ferminals	
EC protection	
Protection degree IP20 (EN 60520-1001)	

E Conformity

dakakanaland		EN 60730 1-3011
plicable harmonized standards		
Marcado	 	CE
lectromagnetic Compatibility Directive	 	2004/108/EC
ow voitage directive	 	2000/93/EC

Product standard	EN 60730-1:2011
Electrical security	. EN60730-1:2011
Electromagnetic compatibility	-6-3, EN61000-6-1

Ordering numbers

-Bus Coupling DALI Master, DALI Master Coupling Unit for e-Touch Flexi & e-Touch Panel .BC.581002-001

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

