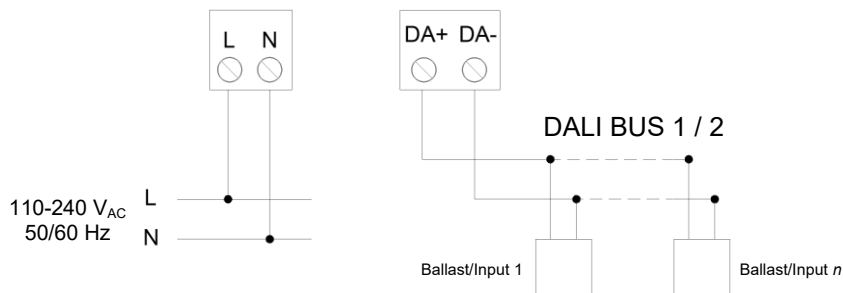


INTRODUCTION

The guidelines in this document apply to KNX-DALI interfaces (DALI BOX Interface 64 v3, DALI BOX Interface 64 X2, and inBOX DALI 16) from version 2.0 onwards.

The management of the installation will be carried out using the DCA “Zennio DALI Tool” from version 2.0.X onwards, or from the device's display if available.

WIRING DIAGRAM



INSTALLATION CONFIGURATION

New installation

For the configuration of a new installation, once the device is installed, the following steps must be followed:

1. **In the ETS configuration**, enable the dimming points corresponding to the installation and define their type (conventional ballasts, LED, RGBW, TC, converters, etc.). Also, configure the additional required functionalities, such as scenes and alarms. Proceed to download the configuration.

NOTE: A ballast cannot be controlled individually if it is associated with a group.

2. **In the “Installation” tab of the DCA**, select the “New Initialization” button. If using the display, access the “New Initialization” menu.
 - a. To retain the association between groups and individual ballast addresses before the reset, select the “Keep Groups” option in the DCA. If using a display, choose the “Keep Groups” option. The device will read all detected ballasts before proceeding with the reset and deletion of addresses.
 - b. If you want to perform a complete reset of the installation, without retaining any group assignments, select the “Full Reset” option in the DCA. For the display, choose “Full Reset.”
3. The device will proceed with a reset and delete the addresses of all the ballasts, then assign new addresses randomly.
4. Once the device has detected and configured the ballasts in the installation, which may take a few minutes, you can use the DCA to configure the individual addresses and group associations. To facilitate this process, select the “Ballast Location Mode.” After defining the group addresses, press the “Send Group Associations” button. In case of using the display, this configuration is performed from the “Manage Detected ECGs” menu.

Existing installation

To install the device in a previously configured DALI installation (or to replace an old KNX-DALI interface), follow these steps:

1. Once the device is installed, press the “Search ECGs” button in the “Installation” tab of the DCA. If using the display, use the “Search ECGs” menu.

- a. If all the ballasts have assigned addresses, select the “Addressed” option in the DCA. If the case of the display, choose “Only Addressed.”
 - b. If there are ballasts without assigned addresses or if the installation status is unknown, select the “All” option in the DCA. If using the display, choose “All ECGs.”
2. After detecting all the ballasts, you can modify the individual addresses (using the “Ballast Location Mode”) or adjust the group assignments from the DCA. On the display, these configurations are performed through the “Manage Detected ECGs” menu.
- a. If there are any dimming points in the installation that are not configured in ETS, using the DCA will automatically enable these points in the ETS configuration. If detection was carried out using the display, you will need to enable them manually in ETS. After configuring the parameters and assigning the group addresses, a download to the device must be performed.
 - b. If all dimming points existing in the installation were previously configured in ETS, the ECGs will be configured according to the parameters defined in ETS.

Installation extension

To expand the current DALI installation by adding new or reused ballasts from another installation (and thus with existing addresses), follow these steps:

1. Connect the ballasts that are to be added to the installation.
2. In the DCA, press the “Search ECGs” button and select “All.” If using the display, within the “Search ECGs” menu, choose the “All ECGs” option.
3. If any of the added ballasts have the same address as an existing one, the DCA or the display will notify you of this conflict. You will be given the option to reassign the conflicting ballasts or ignore the conflict.

ECG replacement

Starting from version 3.0, the quick ballast replacement feature is introduced. With this functionality, when a ballast stops working on an installation, it will only be necessary to replace the faulty ballast with a new one and execute the ECG replacement command, allowing the new device to automatically adopt the configuration of the one that has been removed.

To perform this action, there must first be a single ballast with a presence error. Then, the faulty ballast must be physically removed, the new ballast installed, and finally the command must be executed to complete the replacement.

The command can be executed in several ways:

- From the DCA, in the “ECG Replacement” section, by selecting this tab.
- Through the enabled communication object (number 15). This object can be linked to a touch panel, push button, or another device to trigger the command. Another object (number 16) is also available to indicate whether the replacement has been successfully completed or to indicate possible errors during the process (error codes described in the manual).
- From the display, by pressing the “ECG Replacement” button on the main menu and following the instructions showed on the screen (holding down the OK button).

DALI input configuration

Version 3.0 introduces the possibility of detecting and configuring sensors and binary inputs connected to the DALI line. These inputs (such as motion detectors and binary inputs like switches or push buttons) are detected through the DCA and they are individually configured in the device’s application program parameters on ETS following these steps:

1. Enable the DALI binary inputs and motion detectors option that can be located on the device’s general settings on ETS. Once it is enabled, each sensor or binary input can be individually parameterized on its dedicated configuration tab, which will be automatically generated based on the number of sensors or binary inputs enabled.

2. Detect the DALI inputs connected to the DALI line in the “Input Devices” tab on the DCA, pressing on “Search devices” or performing here a “New initialisation”, in a similar way as it is done for the detection of ballasts.
3. After performing the search, the devices detected by the gateway will appear in this section of the DCA. Then, we must assign here the instances that each device will manage (presence detection, luminosity...). These parameters must be specified in the DCA for the relevant sensor or binary input. In this same tab, you can see some information as the inputs’ individual address, identification (GTIN), serial number, and detection status.