

DOMIQ/Light

DOMIQ/Light allows control of lighting installations based on the DALI protocol. According to the DALI standard up to 64 DALI balast can be connected to a DALI controller (i.e. **DOMIQ/Light**). Module provides full bi-directional communication (brightness level update, failure notifications, etc.). It is designed to be installed in the installation closet on a 35mm DIN rail. Due to the length of the standard ribbon cable, the module should be mounted on the right side of the **Base** module. Before installation on a DIN rail please push lock on the bottom of the module. Module width is 4T.

Connections

DOMIQ/Light has built-in 230V AC power supply. Power supply has galvanic isolation.

Please connect wires in the following order:

- **D+**, **D-** DALI bus cables.
- **IN** connector – ribbon cable connecting module with the **EXT** connector of **Base** module or with the **OUT** connector of other **DOMIQ** extension module. Before connecting turn **Base** and **Light** modules off.
- **N** neutral wire
- **L** phase wire, 230V 50Hz

DALI bus topology should be linear or star.

NOTICE: Maximum length of DALI bus is **300m**. Proper wiring sizes should also be strictly adhered.

In case of exceeding the maximum length and/or using wrong size of wires, installation may not work properly or not work at all.



DALI bus cable length	Recommended minimum DALI cable size
do 100m	0,5mm ²
100 – 150m	0,75mm ²
150 – 300m	1,5mm ²

Due to the possibility of future extension of the installation, we recommend using 1,5mm² wiring.

Signaling

On the lower part of the module set of 4 LEDs is installed: **ACT** (blue), **ERR** (red), **TX** (yellow), **RX** (green). Correct module operating is indicated by **ACT** LED blinking with frequency of 1Hz.

After running the module in addition to the ACT LED also TX LED blinks. **TX** blinks when data is transmitted to DALI bus. **RX** blinks when data is correctly received.

Communication errors are indicated by **ERR** LED.

Configuration

Configuration is done using configuration interface built in **DOMIQ/Base** module (the **DALI** tab).

The screenshot displays the configuration interface for the DALI tab. It features a table with columns for Remote, Display, State, Events, Timers, Logic, Links, MODBUS, BACnet, DALI, Resources, Settings, Users, and Status. The table contains data for EVG 1, including Actual, On, No Power, Fall, Max. level, Min. level, Failure level, On level, Fade rate, and Fade time. To the right of the table are control panels for 'All EVGs Control' and 'Single EVG Control'. The 'All EVGs Control' panel includes 'Random Addressing' (All, Unassigned) and 'Interface control' (All On, All Off, Up, Down, Enter value..., Set). The 'Single EVG Control' panel includes 'Control' (On, Off, Up, Down, Enter value..., Set) and 'Addressing' (Set, Delete). Below these panels is a table for scene management with columns for Scene no., Value, Save scene, Load scene, and Group assignment. The scene table lists 16 scenes with their respective values and group assignments.

Scene no.	Value	Save scene	Load scene	Group assignment
0	222	Save	Load	<input checked="" type="checkbox"/> 0
1	255	Save	Load	<input checked="" type="checkbox"/> 1
2	254	Save	Load	<input type="checkbox"/> 2
3	123	Save	Load	<input type="checkbox"/> 3
4	255	Save	Load	<input type="checkbox"/> 4
5	0	Save	Load	<input type="checkbox"/> 5
6	255	Save	Load	<input type="checkbox"/> 6
7	255	Save	Load	<input type="checkbox"/> 7
8	255	Save	Load	<input type="checkbox"/> 8
9	255	Save	Load	<input type="checkbox"/> 9
10	254	Save	Load	<input type="checkbox"/> 10
11	255	Save	Load	<input type="checkbox"/> 11
12	255	Save	Load	<input type="checkbox"/> 12
13	255	Save	Load	<input type="checkbox"/> 13
14	255	Save	Load	<input type="checkbox"/> 14
15	255	Save	Load	<input type="checkbox"/> 15

Detailed description of the configuration and control can be found in the „**DOMIQ/Base Configuration Manual**”.