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04/02/2021

DATASHEET

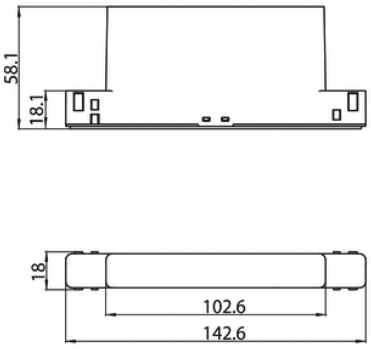
DALI GATE

CASAMBI

V → DALI

Photo and dimensions

Vin range 24Vdc 48Vdc



Description

DALI GATE Casambi has been designed and developed to control lamps with DALI drivers using the Casambi app, installed on mobile devices.
Suitable for installation on MULTISYSTEM® • MULTISYSTEM® EVO tracks.
The Casambi app communicates with DALI GATE by means of Bluetooth technology.
The received signal is then adequately interpreted to generate the corresponding command on the DALI bus.
Up to 64 lamps (control gear) can be programmed, assigning them to up to 8 groups.
It must be the only DALI master on the bus (MONO MASTER bus)

Features

- B *Power supply 24Vdc to 48Vdc, not polarized*
- B *Suitable for installation on MULTISYSTEM® • MULTISYSTEM® EVO with trackS*
- B *Fused and protected against voltage peaks*
- B *DALI GATE generates the DALI line and compatible commands according to the IEC 62386 standard (not optically isolated), it is not possible to connect other DALI masters on the same line*
- B *Allows you to connect up to 64 DALI lamps (control gear)*
- B *Control of 8 groups using the Casambi Evolution network (only 4 on a Casambi Classic network)*
- B *The lamps on the bus are controlled by means of group commands: each lamp will execute only commands sent to its belonging group.*

Technical specifications

Power supply		Power consumption	Output DALI current	Environment working temperature	
Min	1'F	6W	1'F	Min	1'F
24 Vdc	48 Vdc		180 mA	-20°C	+40°C

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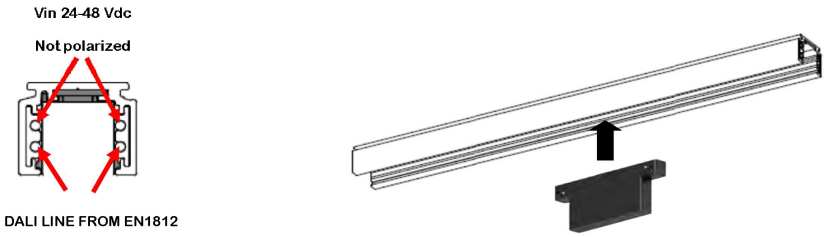
Connections

Connection example



OPERATION

Requirements: MULTISYSTEM® or MULTISYSTEM® EVO track, compatible DALI lamps (control gear IEC62386-102), DALI GATE Casambi device, Smartphone / Tablet for using the Casambi APP.

Incompatible devices: DALI master (control device IEC62386-103) or line power supplies (bus power supply IEC62386-101).

- Connect the power supply and DALI Bus to the track as per the manufacturer's instructions.
- Before using them, the lamps must be configured, as described in the section "PROGRAMMING DALI LAMPS".

PROGRAMMING DALI LAMPS

*Lamps must be new and/or reset if used previously. In this case, see the **RESET LAMPS** section (page 4).*

*Before programming the lamps, it is recommended to install and configure the relative APP, for the CASAMBI APP see the **CASAMBI CONTROL** section (page 4).*

FULL AUTOMATIC PROGRAMMING

*With this programming, DALI GATE takes care of the complete configuration of the system, but it is not possible to manage the assignment of the lamps to the Groups. For group programming see **SELECTIVE PROGRAMMING** (page 3).*

Example: DALI GATE, on track, with unprogrammed lamps.
In automatic mode, the DALI bus is immediately scanned.
Each lamp is programmed, assigning it an address and a group to which it belongs, from 0 to 7, automatically and sequentially.
Having reached the programming of the eighth lamp, DALI GATE will continue assigning the ninth again to Group 0 and then again to grow.
*All the lamps present on the BUS will be programmed, **for a maximum of 64.***
Unprogrammed lamps will initially appear on, to go off one at a time, as they are successfully programmed.At the end of the process, the lamps will turn on again.

***IMPORTANT**: Groups 0 to 7 will directly correspond to the 8 sliders in the control app.*

*If the power supply fails, or DALI GATE is removed from the track, upon reset / re-insertion, DALI GATE immediately checks for the presence on the bus of **new lamps** (without address and Group) and if any are found, assigns them the address and group, in the same way as described for the first start-up, **starting from the first free Group address.***
After this phase, which lasts a few seconds, the system is operational again.
All lamps already programmed, even added later, will keep the data, which they will use in normal operation.

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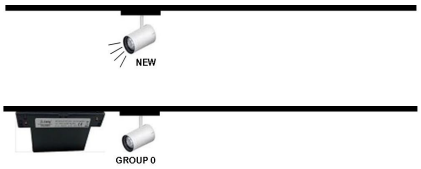
SELECTIVE PROGRAMMING - CREATION OF GROUPS

It is possible to decide on the assignment group of unprogrammed lamps, using the control mechanism when power is restored, remembering that:
- addresses and groups will be assigned starting from the first free Group address
– that lamps already programmed will keep the assignment
With selective programming it is possible to check the status of the lamps and the related groups created by the APP as you proceed. It is therefore possible to manage the programming and at the same time check it through the APP.



Here is an example:
-with power supply connected and present, with empty track, insert the first lamp to be programmed: it must turn on.
If it does not turn on, check that it is fully inserted into the track.

- insert DALI GATE in the track
- after a few seconds the lamp goes out to indicate the successful association with Group 0 (the first free) controlled by the first slider of the App.
If it does not turn off, check that it is fully inserted into the track (DALI side).

- remove DALI GATE from the track again
- the lamp just programmed will have to turn on again

- insert a new lamp to be programmed into the track
- this lamp must also light up

- insert DALI GATE in the track
– - after a few seconds, the new lamp also turns off to indicate
– that it has been associated with Group 1 (the first free Group), controlled by the second Slider of the App

- remove DALI GATE from the track and proceed with the subsequent lamps to be programmed.
As already seen, each new lamp will be progressively assigned to the first free group between 0 and 7.

ASSOCIATION OF OTHER LAMPS TO GROUP 1
to associate other lamps to Group 1:
– check that at least one lamp assigned to Group 0 is inserted in the track
- check that no lamps assigned to Group 1 are inserted in the track
– remove the DALI GATE from the track: the Group 0 lamp switches on
– insert the lamp to be associated with Group 1 in the track: this too must turn on.

- insert the DALI GATE *in the track*
– after a few seconds the new lamp switches off to indicate that it has been associated with Group 1

- remove the DALI GATE *from the track: the lamps turn on*
– remove from the track only the lamp just associated with Group 1 and set it aside
- insert the new lamp to be associated again with Group 1: it must turn on.

- insert the DALI GATE *in the track*
– after a few seconds the lamp switches off to indicate
– that this new lamp has also been associated with Group 1

By repeating this sequence it is possible to safely assign other lamps to Group 1.
If you want to assign some lamps to group 2, it will be necessary to always keep a lamp already assigned to each of the previous Groups (Group 0, Group 1) inserted in the track and repeat the sequence described above for all the lamps to be associated with Group 2.

Once all the lamps have been programmed, it is possible to insert them in the track: the lamps assigned to a specific group will be controlled together by the relative cursor directly from the APP interface

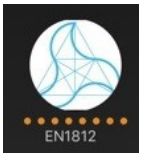
PROGRAMMING WITH EXTERNAL DALI PROGRAMMER

With a master DALI device program the group of each lamp.
Valid groups are only groups from 0 to 7 inclusive.
By assigning the lamp to a group greater than seven, the lamp will not execute any commands

ATTENTION

By connecting and powering the track without programming the system , the EN1812 will program all the new lamps in a RANDOM mode.

RESET OF LAMPS (erasure of DALI group assigned to lamps)



Using the CASAMBI APP, ***act on the main icon (in the picture) as if to turn all the devices on and off, 20 consecutive times.***

During this phase, the lamps will follow the on and off commands and then stop working at the twentieth maneuver.
This situation will confirm the reset of the lamps present in the system.

In some cases, even less than 20 cycles may be enough to reset.

IMPORTANT: to guarantee the correct reprogramming, after the reset, both lamps and DALI GATE ***should be removed from the track and kept off the track, for at least 15 sec***

The system is now ready to be reconfigured.

CASAMBI CONTROL

On first use, install the Casambi app via App Store or Google Play.

- ***Create a new network****: from the APP access the '"My networks" section, select " Create new network " and choose from those available. Evolution Network recommended.*
- Then freely enter the name of your new network.

- ***add the DALIGATE device,*** *detected via bluetooth, to the network. To be recognized, the* DALI GATE *device must be inserted in the track and correctly powered. (The device will also be detected by the " Nearby devices " section on the APP home page and indicated by a red icon on the side)*

- ***access the created network:*** *in "My networks" section, locate the Entity icon, corresponding to the associated* DALI GATE *device. By acting on this icon it will be possible to use the Casambi functionalities and access the groups of lamps, as long as they are already correctly configured*

Functions:
- touching the main Entity icon allows you to turn on / off all the lamps at the same time
- by touching the icon and dragging upwards, the General Slider appears, allowing for simultaneous adjustment of all the lamps.
- by pressing and holding the main icon, 8 Sliders will appear. Each Slider separately controls the brightness of the associated group

IMPORTANT:
- if the network created initially is of the Classic type, only the first 4 sliders can be used
- if the network created initially is of the Evolution type, all the sliders can be used

For all the features of the app, visit the Casambi website:
http://www.casambi.com

Disconnect DALIGATE **from the Casambi network**

The Casambi app also allows you to remove DALI GATE from your network, or from a network to which it was associated by mistake.
If it has been associated, for example, to an unknown network, you can disconnect it using the "disconnect device" app function
- when asked to "turn off and turn on quickly" it will be necessary to disconnect DALI GATE from the track, and connect it again.

BUTTON CONTROL WIRELESS (OPTIONAL)

It is possible to control all the lamps or the desired group using the button kit.

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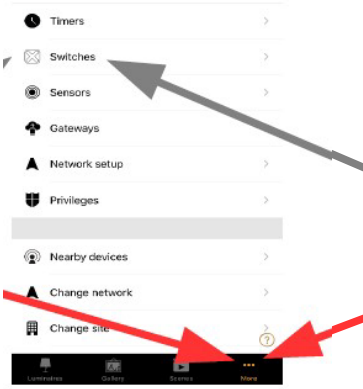
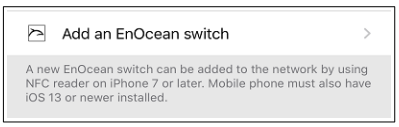


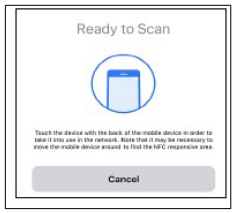
It is available in two versions:
cod. E001-SWIT-BLE1 is able to carry out two checks
cod. E002-SWIT-BLE2 is able to carry out four checks
Any check can be used to check:
-all lamps
-a group of lamps
-an element of a lamp.

From the main screen select "More"

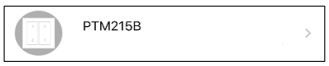
select "switches"



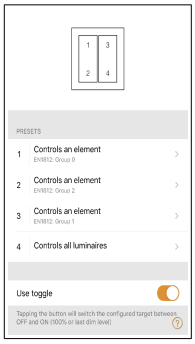
To select
"Add an EnOcean switch"



When the "Ready to scan" message appears
move the button closer to the mobile phone to identify it



Once found, it is identified as "PTM215B"



Click on its icon to display the related menu

press the desired number to program its function:
selecting the "Check element" function, it is possible to control every single element