www.bticino.com

DALI-2 Gateway

F429G

Description

The device is an interface between MyHOME/Lighting Management systems and devices driven using the DALI-2 (Digital Addressable Lighting Interface) protocol.
It has 1 independent output to manage up to 64 DALI-2 ballasts. The supported functions are: ON/OFF, dimmer, RGB, RGBW e Tunable White, Fade in-out.
The device can be installed in a MyHOME system through Home + Project app configuration. Suitable for installation with all DALI-2 lamps.
The buttons with respective notification LEDs set the SCS and DALI operating modes. The SCS button (7) sets the device for virtual configuration, the DALI button (3) is used to turn the DALI output on and off.

NOTE: The DALI-2 function is available and supported only by Classe 300EOS, MyHOME F460 and F461 servers.
In case of existing installations with the MHS1 server, it is possible to guarantee the system upgrade and functional extension through the backup & restore function directly from Home + Project, without having to reconfigure the system from scratch.

Technical data

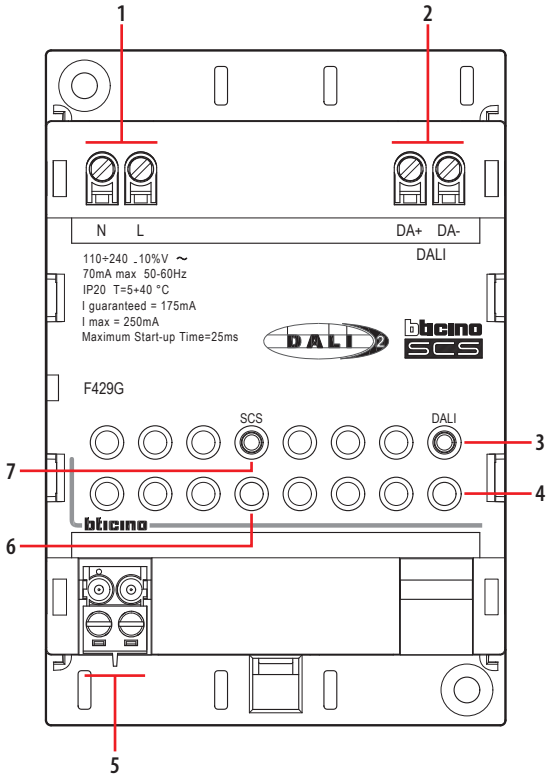
Operating temperature:	5 – 40 °C
BUS SCS input	
Power supply:	18 – 27 Vdc
Absorption:	6 mA
Input 230 Vac	
Voltage:	110 – 240 Vac
Operating frequency:	50/60 Hz
Absorption:	70 mA max
DALI output	
Rated voltage;	16 Vdc
Rated power:	4 W
Max. current:	250 mA
Guaranteed current:	150 mA
Maximum Start-up Time:	25 ms
Number of DALI devices that can be controlled:	64
Maximum length of the cable:	300 m
Cable section:	1,5 mm^2
Compatible DALI loads:	all
Compatible DALI-2 loads:	DT0, DT6, DT8 (up to RGBW on single channel)*

* **Note:** Check that the Dali certification (Dali or Dali2 logo) is present on the device. The device must included in the Dali Alliance product database (www.dali-alliance.org).

Dimensional data

Size: 4 DIN modules.

Front view



Legend

1. PRIMARY connection clamps
2. Connections clamps for DALI GEAR control *
3. Maintenance pushbutton, simultaneous ON/OFF control of all DALI loads. The status of the loads is not shown on the device
4. DALI output notification LED
   Orange LED steady = at least one load on the DALI output is ON
   Green LED steady = all the loads are OFF
   Orange/green LED flashing = addressing and acquisition of DALI loads running
5. BUS SCS connection clamps
6. BUS SCS output notification LED
   Green LED steady = power supply present
   Orange/green LED flashing quickly = no configuration
   Red LED flashing intermittently = configuration being completed
7. SCS configuration pushbutton

* **Note:** The device is designed to be the only BUS power supply in the system

Configuration

For device configuration and installation and for any other information, refer to the following instructions or to the documentation available in the on-line catalogue of the device.

Download App

Home + Project

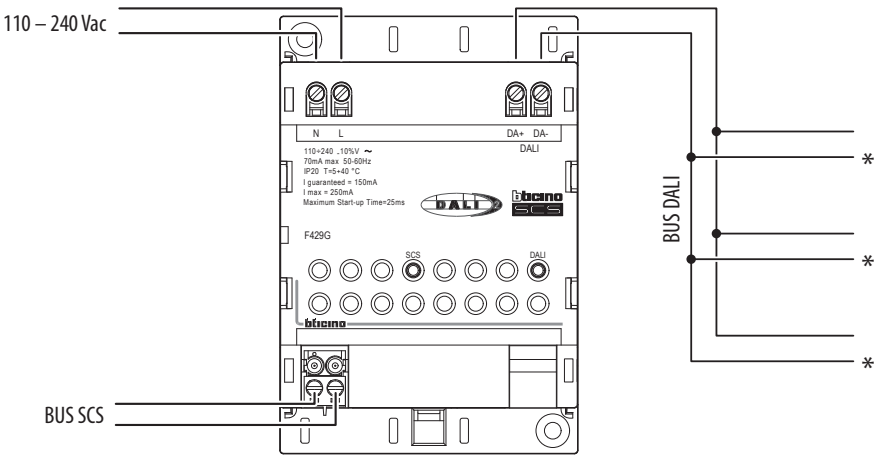
Google Play: it is recommended the use of the latest version of Android with access to Google Play

Google Play

iOS: to control this HomeKit accessory, we recommend the use of the latest version of iOS or iPadOS

App Store

Wiring diagrams



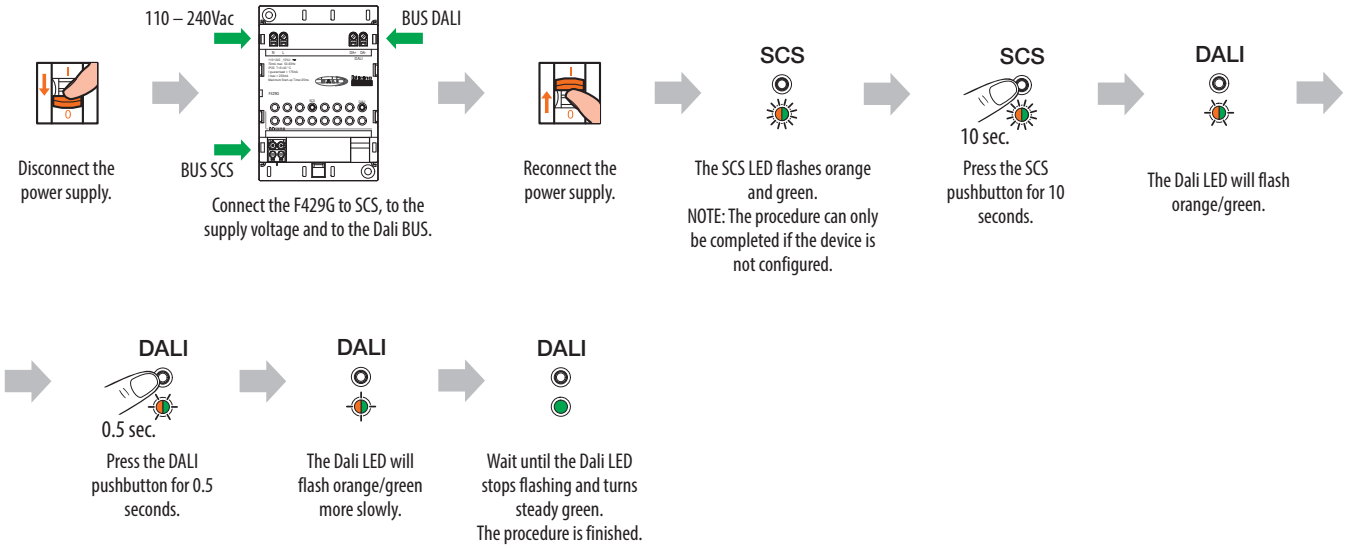
* DALI devices: max 64 devices.

Addressing and acquisition of reactors

It is strongly recommended to install only DALI non-configured loads: the address of loads is assigned by the device.
If it is absolutely necessary to use loads that are already configured, please refer to the "Addressing and acquisition of reactors - already with address" section in order to restore the correct configuration.

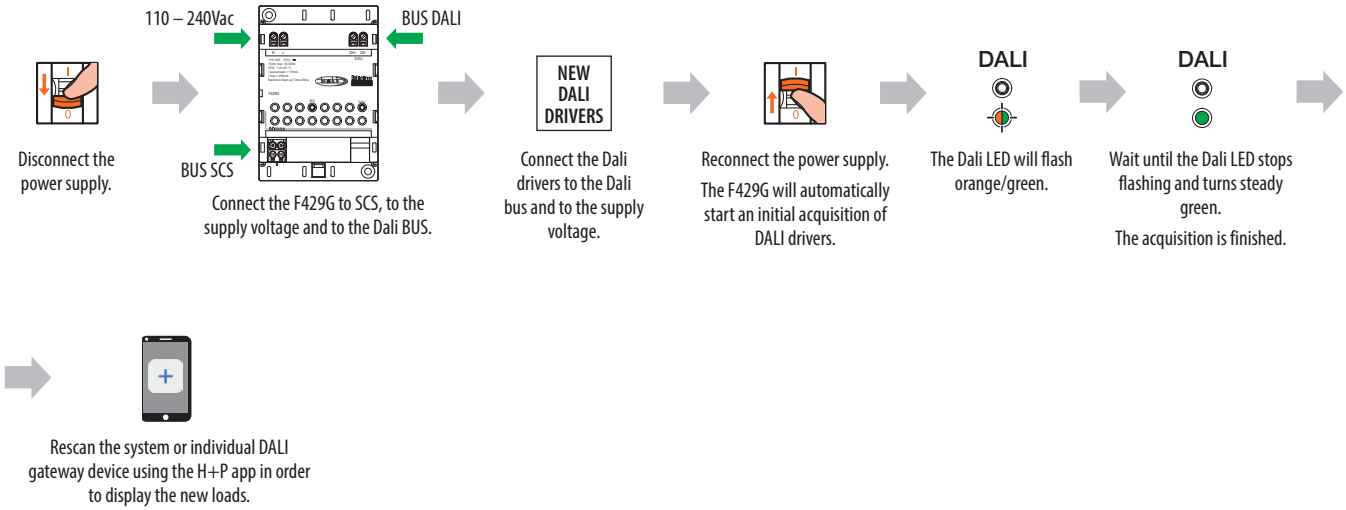
LED legend				
Steady green	Steady orange	Orange/green 0,5 ON / 0,5 OFF	Orange/green 0,2 ON / 0,5 OFF	Orange/green 0,1 ON / 0,1 OFF

Procedure to be followed when configuring the F429G device for the first time regardless of the reactor conditions

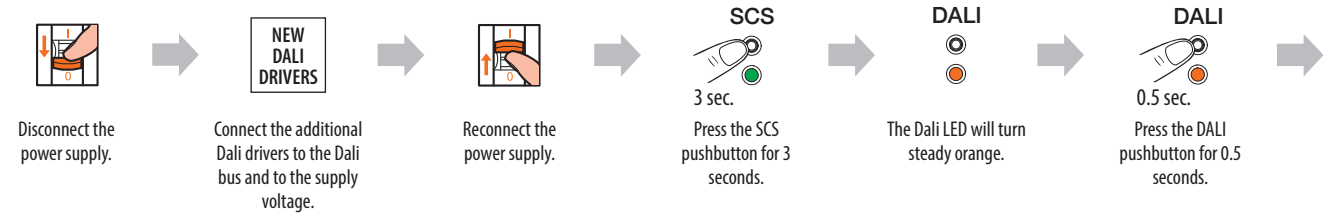


Addressing and acquisition of reactors – without address

Procedure to be followed when installing the new F429G device and new Dali drivers for the first time



Procedure to be followed when adding new drivers



Disconnect the power supply.

Connect the additional Dali drivers to the Dali bus and to the supply voltage.

Reconnect the power supply.

Press the SCS pushbutton for 3 seconds.

The Dali LED will turn steady orange.

Press the DALI pushbutton for 0.5 seconds.

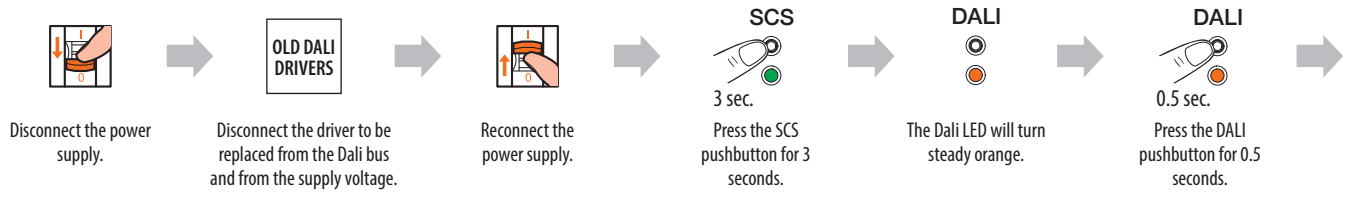
The Dali LED will flash orange/green.

Wait until the Dali LED stops flashing and turns steady green.

The acquisition is finished.

Rescan the system or individual DALI gateway device using the H+P app in order to display the new loads.

Procedure to be followed when replacing a Dali driver with one of the same type (dimmer only, TW, RGB)



Disconnect the power supply.

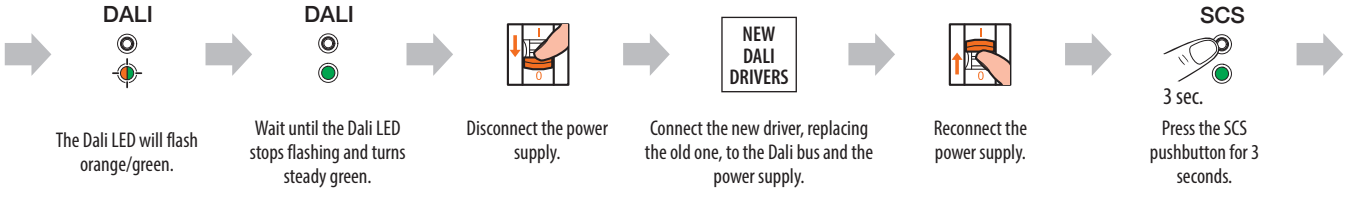
Disconnect the driver to be replaced from the Dali bus and from the supply voltage.

Reconnect the power supply.

Press the SCS pushbutton for 3 seconds.

The Dali LED will turn steady orange.

Press the DALI pushbutton for 0.5 seconds.



The Dali LED will flash orange/green.

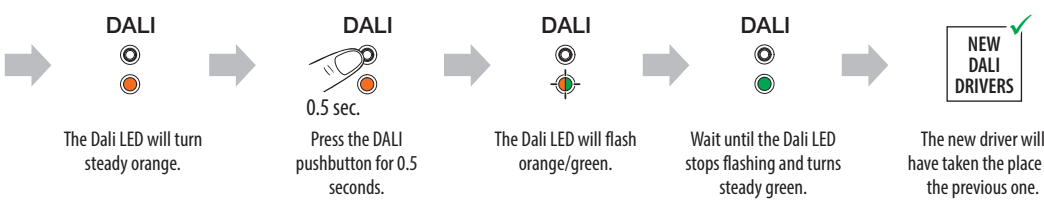
Wait until the Dali LED stops flashing and turns steady green.

Disconnect the power supply.

Connect the new driver, replacing the old one, to the Dali bus and the power supply.

Reconnect the power supply.

Press the SCS pushbutton for 3 seconds.



The Dali LED will turn steady orange.

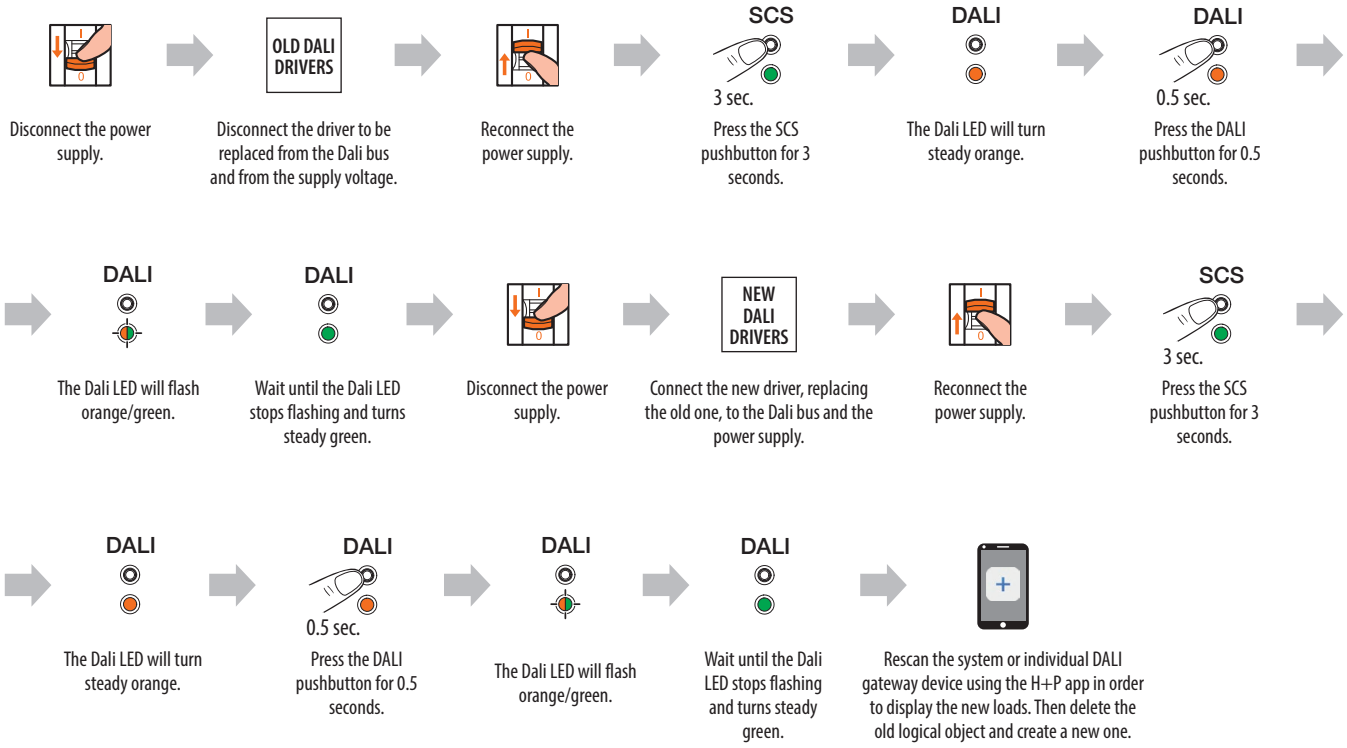
Press the DALI pushbutton for 0.5 seconds.

The Dali LED will flash orange/green.

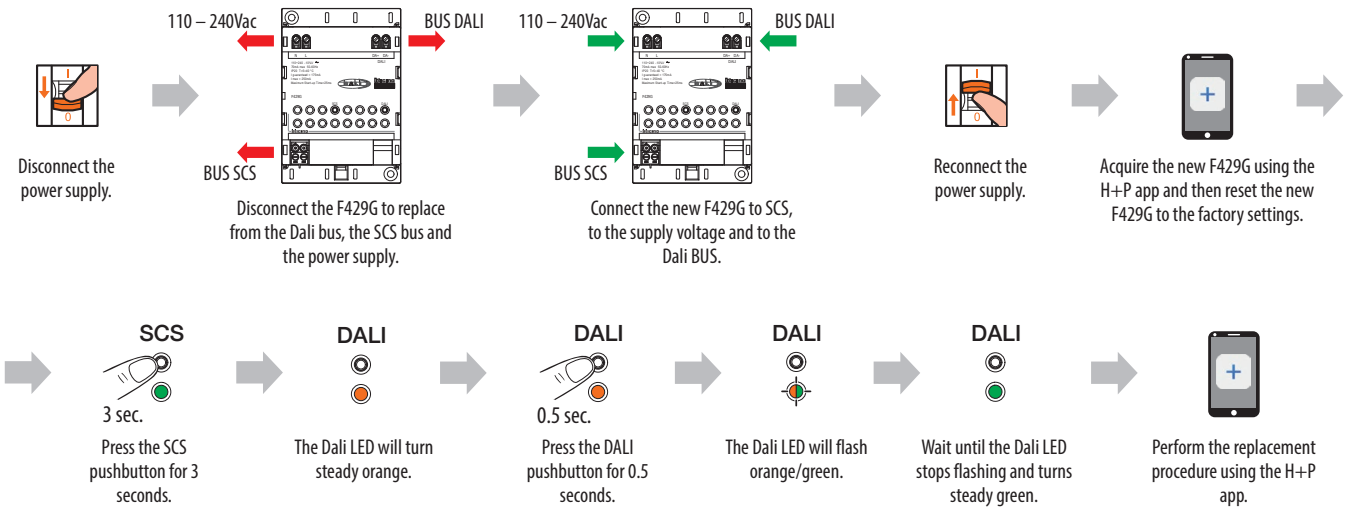
Wait until the Dali LED stops flashing and turns steady green.

The new driver will have taken the place of the previous one.

Procedure to be followed when replacing a Dali driver with one of a different type



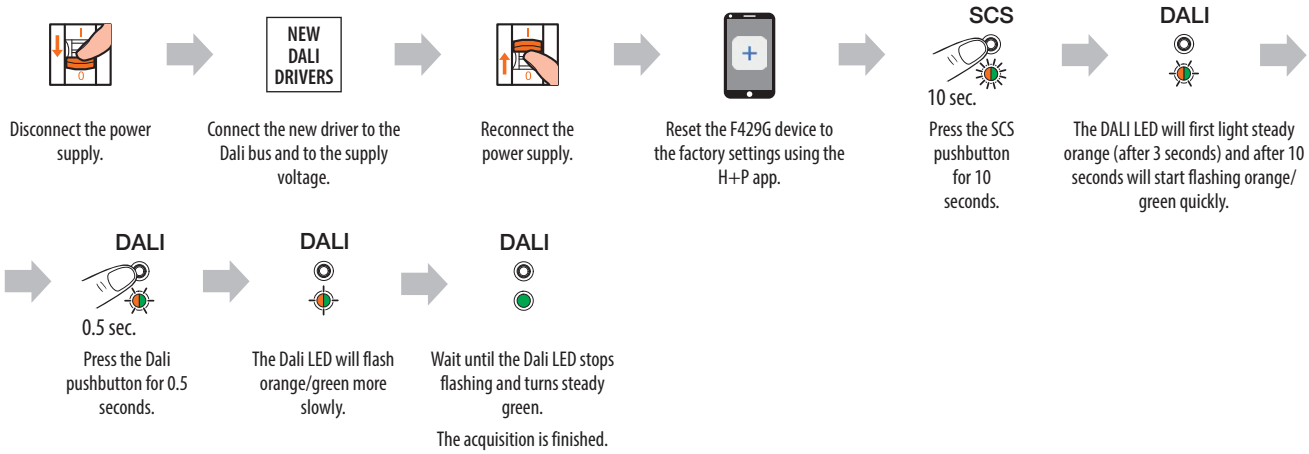
Procedure to be followed when replacing an F429G device with another already used



Note: In case of replacement with a new F429G device, the acquisition procedure will be started automatically. Once the Dali LED stops flashing, it will only be necessary to perform the replacement procedure required by H+P.

Addressing and acquisition of reactors – already with address

Procedure to be followed when installing Dali drivers already with an address, already used on another system



Disconnect the power supply.

Connect the new driver to the Dali bus and to the supply voltage.

Reconnect the power supply.

Reset the F429G device to the factory settings using the H+P app.

Press the SCS pushbutton for 10 seconds.

The DALI LED will first light steady orange (after 3 seconds) and after 10 seconds will start flashing orange/green quickly.

Press the Dali pushbutton for 0.5 seconds.

The Dali LED will flash orange/green more slowly.

Wait until the Dali LED stops flashing and turns steady green.

The acquisition is finished.

Note: Alternatively, DALI-specific tools can be used to independently change driver addresses without having to delete everything.