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DALI-2 Dimmer

F429D

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 2 independent outputs to control up to 32 DALI-2 ballasts (2 groups of 16 lamps). 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 H+P app configuration. Suitable for installations with only some DALI-2 lamps.

The buttons with respective notification LEDs set the SCS and DALI operating modes. The SCS button (10) sets the device for virtual configuration, the DALI buttons (4 and 5) are used to turn on and off and to dimmer the DALI outputs: (4) is for output 1, (5) is for output 2.

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 H+P, without having to reconfigure the system from scratch.
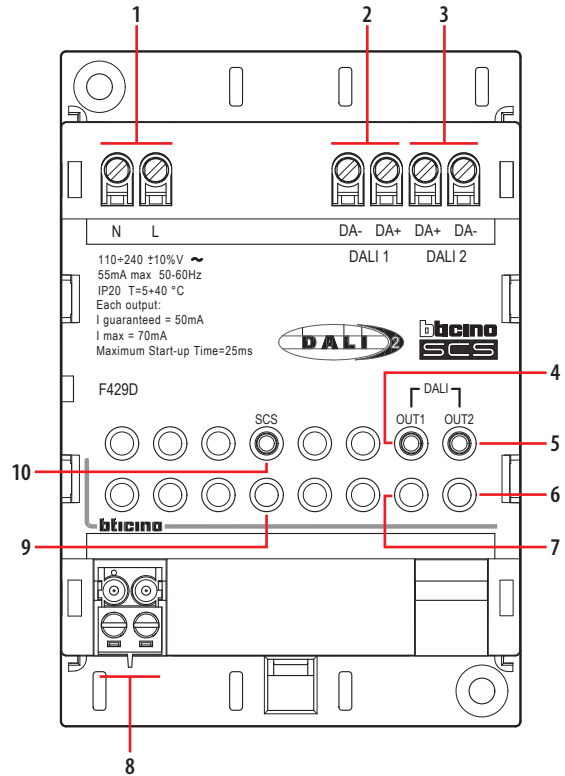
Technical data

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:	55 mA max
DALI output	
Rated voltage:	16 Vdc
Rated power:	1.1 W
Max. current:	70 mA (each output)
Guaranteed current:	50 mA (each output)
Maximum Start-up Time:	25 ms
Number of DALI devices that can be controlled:	16 for each output, for a total of 32
Maximum length of the cable:	300 m
Cable section:	1.5 mm²
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).

Front view

110÷240 ±10%V ~
55mA max 50-60Hz
IP20 T=5÷40 °C
Each output:
I guaranteed = 50mA
I max = 70mA
Maximum Start-up Time=25ms

F429D

Legend

1. PRIMARY connection clamps

2. Connections clamps 1 for DALI GEAR control

3. Connections clamps 2 for DALI GEAR control

4. Load ON/OFF pushbutton 1 for DALI GEAR control

5. Load ON/OFF pushbutton 2 for DALI GEAR control

6. Output notification LED 2 for DALI GEAR control *

7. Output notification LED 1 for DALI GEAR control *

8. BUS SCS connection clamps

9. BUS SCS output notification LED
   Green LED steady = power supply present
   Orange/green LED flashing quickly = no configuration
   Orange/green LED flashing intermittently = configuration being completed

10. SCS configuration pushbutton

* Orange LED steady = at least one load on the DALI output is ON
   Green LED = configured output and all the loads are OFF
   Led off = output not configured
   Orange/green LED flashing = addressing and acquisition of DALI loads running

Dimensional data

Size: 4 DIN modules.

Configuration

For device configuration and installation and for any other information, refer to the App or documentation that can be downloaded from the website:

www.homesystems-legrandgroup.com

Download App

+

Home + Project

ANDROID: requires Android 5.0 or later with access to Google Play

▶ Google Play

iOS: requires an iPhone with iOS 12,0 or later

 App Store

Only install non-configured loads: the addressing of loads is assigned automatically by the device.
In the event of load hot-swap, restart the device.
When replacing a device with a new one on an already configured system, there is no need to perform any operations on the loads.

Wiring diagrams

Output 1 Output 2

110 – 240 Vac

BUS DALI

BUS SCS
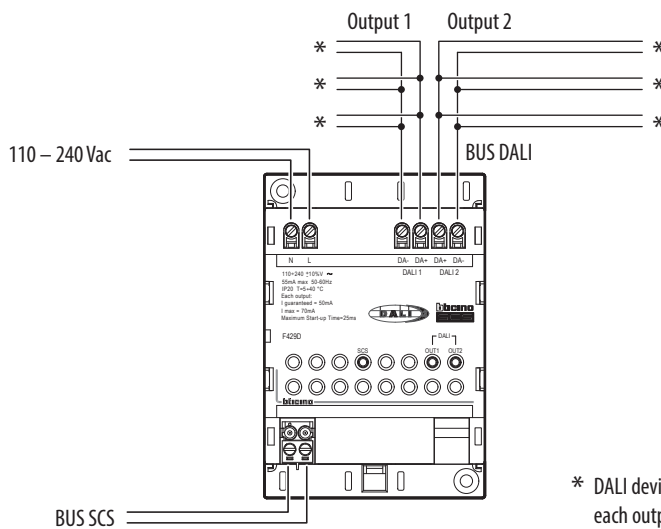
* DALI devices: max. 16 ballast for
each output

Addressing and acquisition of loads

Procedure to be followed when configuring the F429D device for the first time

LED legend	
☀	Orange 0,1 ON / 0,1 OFF
☀	Orange 0,2 ON / 0,5 OFF
◈	Orange 0,5 ON / 0,5 OFF
◎	Steady green

NOTE: Perform the procedure when installing previously configured loads.

Procedure to be followed when adding and configuring a new load on an already configured F429D device

LED legend	
◎	Steady green
◉	Orange steady
◈	Orange 0,5 ON / 0,5 OFF

NOTE: After both procedures are completed, it is recommended to scan the SCS Bus using the Home + Project application.