Dimmer for Electronic Ballast 1-10V

F413N

Description

Control device for electronic ballast or driver power supply units with dimmer function; it can supply fluorescent lamps or LED lamps and adjust their brightness depending on the voltage, with values between 1 and 10V (max. 6mA), with which they are driven. From any specially configured control point and connected to the BUS system one can switch the lights connected on and off or set their brightness. Briefly pressing the control button is enough to switch the load on or off, while holding it down will adjust the brightness. The minimum brightness level and the type of load connected (Ballast for fluorescents or driver for LEDs) can be selected during the configuration.

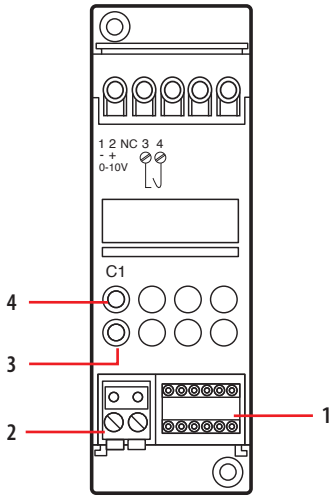
Technical data

Power supply via SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Current draw:	30 mA
Operating temperature:	(-5) – (+45) °C
Linear fluorescent lamps:	2A 460W@230Vac 220W@110Vac Max 10 ballast type T5, T8, compact or driver for LEDs
Dissipated power with max. load:	1 W
Protection index:	IK04
Impact resistance:	IP20

Dimensions

Size: 2 DIN modules

Front view



Legend

1. Configurator socket (note that this must only be used in MyHOME systems with the physical configuration).
2. BUS connector
3. Load status LED
4. Load on/off button

Configuration

1. MyHOME system

If the device is installed in a MyHOME system it can be configured in two ways:
- PHYSICAL CONFIGURATION, inserting the configurators in position.
- Configuration via MyHOME_Suite software package, downloadable from www.homesystems-legrandgroup.com; this mode has the advantage of offering many more options than the physical configuration.

For a list of the procedures and their meanings, please refer to the instructions in this sheet and to the "Function Descriptions" help section in the MyHOME_Suite software package.

Note: For this device, the MyHOME Server automatically configures 1 channel.

1.1 Addressing

Address type		Virtual configuration (MyHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Lighting point	0-15	PL=1-9
Group		Group 1 - Group 10 = 0-255	G = 0-9

1.2 Mode

Virtual configuration (MyHOME_Suite)		Physical configuration	
Function	**Parameter / setting**		
Master Actuator	Master	M=0	
Actuator as Slave. Receives a control sent by a Master actuator with the same address	Slave	M=SLA	
Pushbutton (ON monostable) ignores Room and General controls	Master PUL	M=PUL	
OFF delay: Master actuator with OFF control delayed on the corresponding Slave actuator. [1)]	0 - 255	M=1	1 minute
		M=2	2 minutes
		M=3	3 minutes
		M=4	4 minutes
Selection of the minimum brightness level [2)]	1-100	L=0	1 Volt
		L=1	1.5 Volt
		L=2	2 Volt
		L=3	0 Volt
		L=4	0.5 Volt
Selection of the type of load used [3)]	Fluorescent lamps	TYPE=0	Fluorescent lamps
	LED lamp	TYPE=1	LED lamp

NOTE 1): In the Master and Master PUL mode you can set an OFF delay of 0-255 seconds (via MyHOME_Suite) and of 1-4 minutes using the physical configuration. Only for point-point control. With the OFF control the Master actuator deactivates; the Slave actuator deactivates after the time set with the configurators has elapsed. The ON control activates the Master actuator and the Slave actuator at the same time. The next OFF control deactivates the Master actuator and keeps the Slave actuator active for the period of time set with configurator 1 - 4 connected to M of the Master actuator as indicated in the table.

NOTE 2): In the physical configuration, the configurator in the L position establishes the minimum output voltage between clamps 1 and 2 when the load is on, thus allowing the minimum brightness level to be selected. 5 different voltage levels can be selected, so that the standard 0-10V is possible as well as the standard 1-10V.

NOTE 3): In the physical configuration, the configurator in the TYPE position determines the type of load used on the basis of the following table. If ballasts for fluorescent lamps with typical switching ON delay of 1.5s are used, the device will send the soft/start switching ON command taking account of the delay. If power supply units for LED lamps must be controlled instead, the device will send an immediate soft/start switching ON command.

To use the "Actuator as a slave with PUL function", for additional options of the "Type of load" (Dali standard, DSI, Halogen lamp, Trailing edge LED / electronic transformers) and for adjusting the voltage, use MyHOME_Suite virtual configuration.

2. Lighting Management System

When installed in a Lighting Management system, the device can be configured in the following ways:

- Push & Learn: procedure for pairing different connected devices or changing the assignments defined automatically in the Plug & Go procedure. For more details, please refer to the specific document.
- Software Configuration: using the Virtual Configurator software; for more details, please refer to the specific manual.

Wiring diagram

Protect with 10 A thermal magnetic circuit breaker