

Dimmer for energy saving lamps

F418

Description

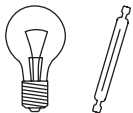


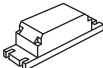
Dimmer for the management of LEDs, dimmable lamps, dimmable compact fluorescent lamps (CFL), halogen energy saving lamps and electronic transformers. After connecting the dimmer to the BUS and to the load, it is possible to adjust the intensity of the light from any control point, properly configured.

By briefly pressing the local control key, it is possible to turn on or off the load, while with a long press it is possible to adjust the light intensity.

The dimmer can adjust the load with 100 different levels of light intensity, and it is possible to set the switch-on time and the minimum level of power dimmed.

Technical data

Power supply via SCS BUS:	27 Vdc
Operating power supply with BUS SCS:	18 – 27 Vdc
Max. consumption:	10 mA
Number of outputs:	1x 0.9 A
Operating temperature:	(-5) – (+35) °C
Dissipated power with max. load:	2.5 W (230 Vac) 1.9 W (127 Vac)
Protection index:	IK04
Level of robustness:	IP20
Driven loads power/absorption:	

	Incandescent lamps Halogen lamps	Dimmable LED lamps
50 and 60 Hz		
@ 230 Vac	1 W - 300 W	1 VA - 300 VA*
	Compact dimmable fluorescent lamps	Halogen lamps with electronic transformers
50 and 60 Hz		
@ 230 Vac	1 VA - 300 VA*	1 VA - 300 VA

Note (*): for the most common dimmable and CFL LEDs available on the market, the 300VA power corresponds to about 200W.

For the choice of LED lamps compatible with the dimmer refer to the table shown after the «Wiring diagram» chapter

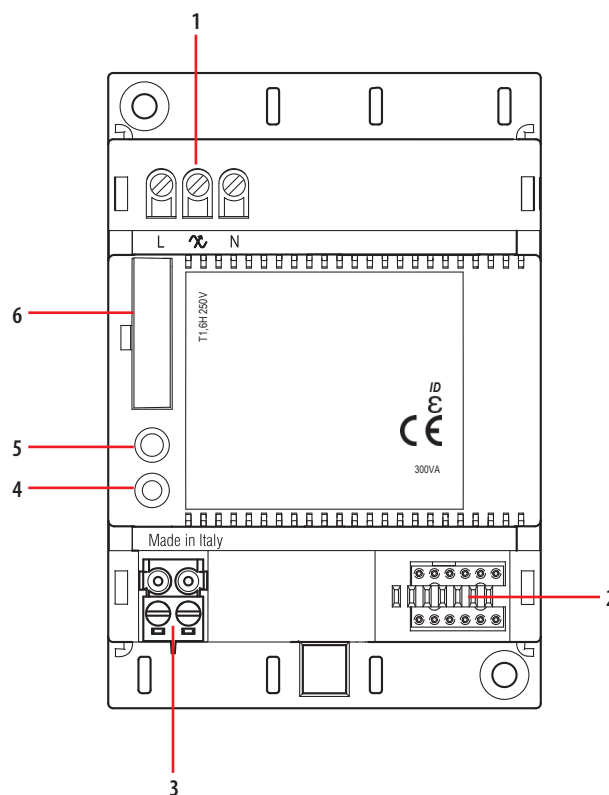
Standards, Certifications and Marks

- EN 60669-2-1: Switches for household and similar fixed electrical installations;
- EN 50090-2-2: Home and building electronic systems (HBES);
- EN 50090-2-3: Home and building electronic systems (HBES), general functional safety;
- EN 50428: Switches for household and similar fixed electrical installations.

Dimensions

Overall size: 4 DIN modules

Front view



Legend

1. Load
2. Configurator seat (to be used only in MyHOME systems with physical configuration)
3. BUS
4. ON/OFF button and light intensity adjustment
5. Led
 - off: BUS not present
 - green on: load off
 - orange on: load on
 - orange/green fast flashing: device not configured
 - orange/green slow flashing: device in configuration or malfunction of the load
6. Fuse

Configuration

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 which has the same address	Slave		M=SLA	
Button (On monostable) ignores Room and General controls	Master PUL		M=PUL	
Delay OFF: 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 type of load used	Switching on at the minimum level and then it sets to the stored level	Inductive LED	TY=0	min default level=10%
	Switching on at the maximum level and then it sets to the stored level	Inductive CFL	TY=1	min default level=37%
	Switching on at the minimum level and then it sets to the stored level	Capacitive LED/electronic transformers	TY=2	min default level=10%
	Switching on at the maximum level and then it sets to the stored level	Capactive CFL	TY=3	min default level=37%
	Switching on at the minimum level and then it sets to the stored level	Halogen lamp	TY=4	min default level=1%

NOTE 1): In the Master and Master PUL mode it is possible to set a 0-255 seconds OFF delay (through MyHOME_Suite) and 1-4 minutes delay through the physical configuration. Only for point-to-point control. With the OFF control the Master actuator is disabled, the Slave actuator is disabled after the time set with the configurators has elapsed.

The ON control activates at the same time the Master actuator and the Slave actuator. The following OFF control disables the Master actuator and keeps the Slave actuator active for the period of time set by the configurator 1 - 4 inserted in M of the Master actuator as shown in the table.

To use the "Actuator as slave with PUL function " use the MyHOME_Suite virtual configuration.

1.3 Minimum advanced level

Virtual configuration (MyHOME_Suite)		Physical configuration	
Function	Parameter / setting		
The configurator in this position defines the minimum value of the light intensity obtainable by means of the dimmed adjustment.	0-100	MIN=0	0 ¹⁾
		MIN=1	1%
		MIN=2	5%
		MIN=3	10%
		MIN=4	15%
		MIN=5	20%
		MIN=6	25%
		MIN=7	30%
		MIN=8	35%
		MIN=9	40%

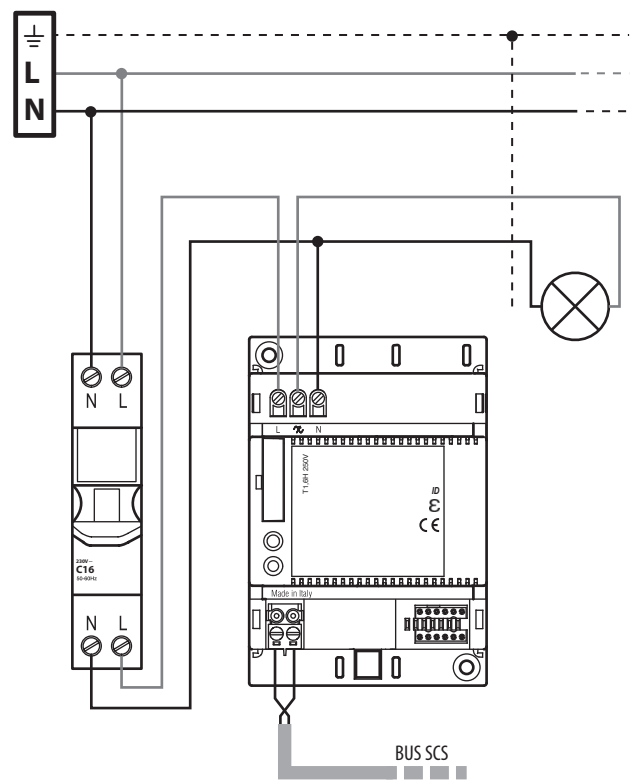
NOTE 1): The default value is set to ensure the best performance according to the configurator in TY position.

Warning:

For proper operation of the actuator set the type of lamp to be driven using the configurator in TY position. If the lamp does not turn on or shows unstable operation, select, using the configurator in the MIN or virtual configuration position, the minimum

level of light intensity until to obtain the value that allows the proper operation of the lamp.

Wiring diagram



Dimmable LED bulbs compatible with dimmer art. F418

This list is intended to be used as a guide when selecting bulbs to be used with MyHOME dimmers; they have been tested by Legrand for dimming compatibility with bulbs contained on the list. Please be aware that bulb manufacturers can modify their bulbs at any time, without notice to Legrand, and therefore Legrand cannot ensure future compatibility.

Brand	Base	Code		Power	Dimmer mode	Max number of lamps
PHILIPS ⁽²⁾	GU5.3 ⁽¹⁾	MASTER LED spot LV	MLGU537FXW24R MLGU537FWW24R MLGU537FCW24R MLGU537FXW36R MLGU537FWW36R MLGU537FCW36R	7 W	Inductive (TY=0)	Up to 10
	G53	LEDspot LV AR111	MLR11110XW24R MLR11110WW24R MLR11110XW40R MLR11110WW40R	10W	Inductive (TY=1)	Up to 10
			MLR11115XW24R MLR11115WW24R MLR11115XW40R MLR11115WW40R	15W		
TOSHIBA	GU10	LDRC0640MU1EUD2		7,1 W	Inductive (TY=0)	Up to 10
	GU10	LDRC0627WU1EUD		6,5 W	Inductive (TY=0)	Up to 10
	E27	LDRC0927WE7EUD		9 W	Inductive (TY=0)	Up to 10
	E27	LDRC1627ME7EUD		16 W	Inductive (TY=0)	Up to 10
	E27	LDRC2027ME7EUD		19,7 W	Inductive (TY=0)	Up to 10
	E27	LDAC0627E7EUD		6 W	Inductive (TY=0)	Up to 10
	E27	LDAC0827WE7EUD		7,5 W	Inductive (TY=0)	Up to 10
	E14	LDGC0627CE4EUD		6 W	Inductive (TY=0)	Up to 10
GE	GU10	98174		6 W	Capacitive (TY=2)	Up to 10
	GU10	97266		4,5 W	Inductive (TY=0)	Up to 10
OSRAM	GU10	902251		5,2 W	Inductive (TY=0)	Up to 10
SYLVANIA	GU10	26365		5,5 W	Capacitive (TY=2)	Up to 10
VISION-EL	GU10	7411C		4 W	Inductive (TY=0)	Up to 6

Note (1): To have good results put MIN=1

Nota (2): Lamps tested in collaboration with Philips.