

## Dimmer for LED, CFL, and halogen lamps

F418

### 1. USE

The device is a dimmer for the management of dimmer LEDs, compact fluorescent lamps (CFL), and energy saving halogen lamps. After connecting the dimmer to the BUS and the load, it is possible to adjust the intensity of the light from any appropriately configured control point. A quick pressure of the local control pushbutton is enough to switch the load on or off, while an extended pressure will adjust the light intensity. The dimmer can be used to adjust the load to 100 different light intensity levels. It is also possible to adjust the ON time, and the minimum level of the power in dimmer mode.

### 2. TECHNICAL DATA

|                                      |                                    |
|--------------------------------------|------------------------------------|
| Power supply from BUS SCS:           | 27 Vdc                             |
| Operating power supply with SCS BUS: | 18 – 27 Vdc                        |
| Max. absorption:                     | 10 mA                              |
| Number of outputs:                   | 1x 0.9 A                           |
| Operating temperature:               | (-5) – (+35) °C                    |
| Dissipated power with max. load:     | 2.5 W (230 Vac)<br>1.9 W (127 Vac) |

Power/Absorption of driven loads:

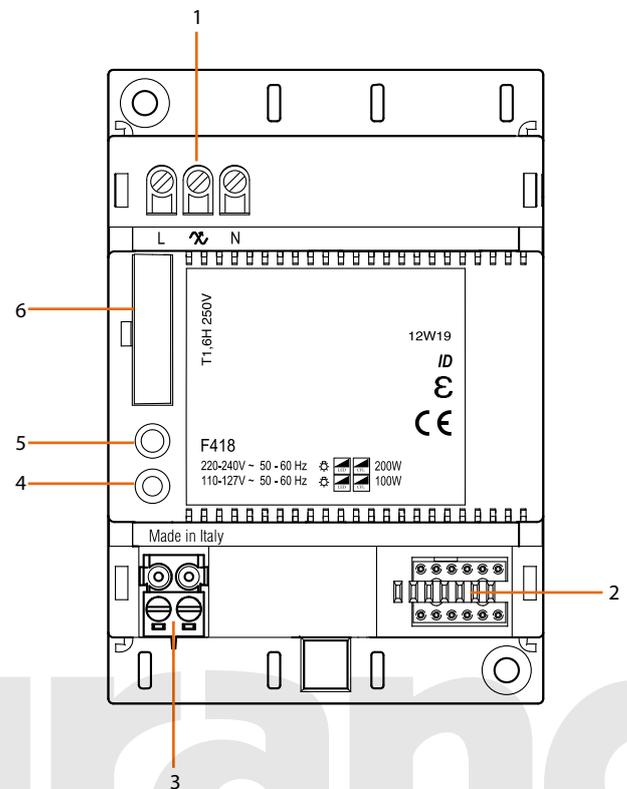
|               |  | Dimmer LEDs, compact fluorescent lamps, and energy saving lamps |
|---------------|---|---|
| 230 Vac       |   | 200 W   |
| 110 – 127 Vac |   | 100 W   |

### 3. STANDARDS, CERTIFICATIONS, 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.

### 4. DIMENSIONAL DATA

Size: 4 DIN modules



### 5. LEGEND

1. Load
2. Configurator socket (only use in My Home system with physical configuration)
3. BUS
4. ON/OFF key and brightness adjustment
5. LED
  - OFF: BUS not present
  - ON green: load off
  - ON orange: load on
  - flashing quickly orange/green: device not configured
  - flashing slowly orange/green: device being configured, or load fault
6. Fuse

**6. CONFIGURATION**

When installed in a MY HOME system, the device may be configured in two ways:

- PHYSICAL CONFIGURATION, by connecting the physical configurators to their sockets.
- VIRTUAL CONFIGURATION, by connecting the system to the PC using the Kit or the Web server. The Virtual configurator software must be installed on the PC.

**PHYSICAL CONFIGURATION**

The actuator performs all the basic operating modes that can be configured directly on the control. Moreover further operating modes with the configurator in position M of the same actuator are listed in the table below.

| Possible function  | Configurator in M   |
|--|---------------------|
| Actuator as Slave. Receives a control sent by a Master actuator with the same address  | SLA                 |
| Pushbutton (ON monostable) ignores Room and General controls   | PUL                 |
| Master Actuator with OFF control delayed on the corresponding Slave actuator. 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 <sup>1)</sup> | 1 – 4 <sup>1)</sup> |

1) 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.

| Configurator | Time |
|--------------|------|
| 1            | 1    |
| 2            | 2    |
| 3            | 3    |
| 4            | 4    |

In addition to the M position, also positions TY and MIN must be configured

**TY**

| Configurator | Type of load   | Minimum light intensity level (default) | Switch on mode  |
|--------------|----------------|---|---|
| None or 0    | inductive LED  | 10                                      | Switches on at minimum level, and then adjusts to the saved level |
| 1            | inductive CFL  | 37                                      | Switches on at maximum level, and then adjusts to the saved level |
| 2            | capacitive LED | 10                                      | Switches on at minimum level, and then adjusts to the saved level |
| 3            | capacitive CFL | 37                                      | Switches on at maximum level, and then adjusts to the saved level |
| 4            | Halogen lamp   | 1                                       | Switches on at minimum level, and then adjusts to the saved level |

Note: CFL = compact fluorescent lamp

**MIN**

The configurator in this position defines the minimum value of the light intensity that can be obtained through dimmer adjustment.

| Configurator | Minimum light intensity level |
|--------------|-------------------------------|
| None or 0    | Default value (*)             |
| 1            | 1 %                           |
| 2            | 5 %                           |
| 3            | 10 %                          |
| 4            | 15 %                          |
| 5            | 20 %                          |
| 6            | 25 %                          |
| 7            | 30 %                          |
| 8            | 35 %                          |
| 9            | 40 %                          |

Note (\*): the default value is set to ensure the best performance based on the configurator in the TY position.

**WARNING:**

For correct operation of the actuator, set the type of lamp to control using the configurator in the TY position.

If the lamp does not switch on, or shows unstable operation, use the configurator in the MIN or VIRTUAL CONFIGURATION position to select the minimum level of light intensity, until a value is obtained that gives the possibility of adjusting the operation of the lamp.

**7. WIRING DIAGRAM**

