

## Dimmer - TECHNICAL CHARACTERISTICS

### 16608 - 16609 - Dimmers

#### Technical specifications

- Switch on, regulation and switch off through built-in push button or non-luminous NC push buttons.
- Lighting level is saved when switched off (unless there is a blackout).
- Soft start: ensures a gradual lighting from zero to maximum or preset lighting levels.
- Soft end: ensures a gradual passage from light to dark.
- Protection against short-circuit when switch on and overriding with blow-out indication
- MASTER-SLAVE function: paying attention not to exceed maximum power controllable by each dimmer. To MASTER dimmer, it is possible to add up to 4 SLAVE dimmers for a maximum total load of:
  - 2.500 W / 1.500 VA to 120 V~ 50-60 Hz, corresponding to 500 W / 300 VA max connected to each of the 5 devices;
  - 4.000 W / 2.500 VA to 230 V~ 50-60 Hz, corresponding to 800 W / 500 VA max connected to each of the 5 devices.
- TRIAC technology.
- SLAVE dimmer has to be connected to a MASTER dimmer to operate.

#### Operating

- Turn on and off by pressing the button quickly and make adjustment by keeping it pressed. Stop and restart to change direction.
- When maximum or minimum load is reached, dimming stops and can be inverted by pressing the dimmer again.
- If the pilot indicator does not turn on check the fuse and if necessary replace it with the same type.
- If the pilot indicator flashes when turned on check it and replace the load if necessary (short-circuit load).
- If the pilot indicator flashes after turning on, installation has not been carried out correctly and the overheating protection has been activated. Have the system checked by an expert.

#### Controllable loads

- Halogen and incandescent lamps:
  - 40-500 W, 120 V~ 50-60 Hz;
  - 40-1000 W, 230 V~ 50-60 Hz.
- Ferromagnetic transformers for low-voltage halogen lamps:
  - 40-300 VA, 120 V~ 50-60 Hz;
  - 40-500 VA, 230 V~ 50-60 Hz.
- Not suitable for motor control (e.g. exhaust fans, extractors).

### 01860.60 - Electronic transformer

Electronic transformer for extra low-voltage halogen lamps, 20-60 W, 12 V~ (SELV) output, supply voltage 230-240 V~ 50-60 Hz

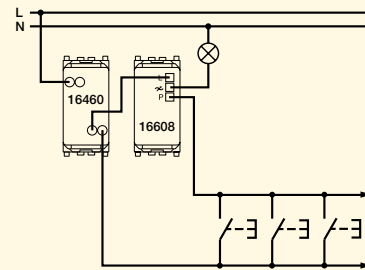
### 01860.105 - Electronic transformer

Electronic transformer for extra low-voltage halogen lamps, 20-105 W, 12 V~ (SELV) output, supply voltage 230-240 V~ 50-60 Hz

#### Technical specifications

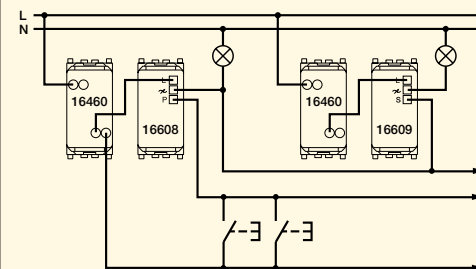
- SELV-equivalent
- IP20 independent transformer
- Protective terminal cover and cord-grip
- Opposite outlet and inlet terminals
- Max. permitted ambient temperature 50 °C (ta) for 01860.60 and 40 °C (ta) for 01860.105

### 16608 - Control and regulation from several points with NO push buttons



### 16609 - Control and regulation with SLAVE dimmer

In order to operate correctly the length of each connection between the MASTER dimmer and SLAVE dimmer or NO push buttons should not exceed 100 m.



#### NOTE

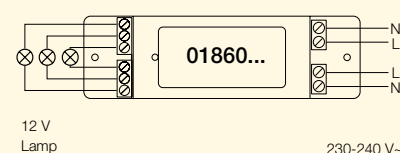
- The connection should be made with fuse carrier with quick-acting fuse with high breaking capacity type F5AH 250 V~ (07050.HF.5).
- Installation of 2 dimmers in the same mounting box, the loads controlled by each dimmer must be reduced so that their total does not exceed the indicated values.

- Max. permitted ambient temperature on external surface: 70 °C
- Dimensions: 39x149x27 mm

#### Conformity to Standards

LV Directive, EMC Directive  
 EN 61347-1, EN 61347-2-2, EN 61547, EN 55015,  
 EN 61000-3-2, EN 61000-3-3 Standards

### Electronic transformer wiring diagram



## Dimmers

### Dimmer

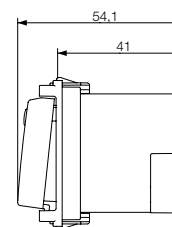
*16608	.B	Dimmer, supply voltage 120-230 V~ 50-60 Hz for 40-500/40-800 W incandescent lamps and 40-300/40-500 VA ferromagnetic transformers, control and regulation with built-in push button or from peripheral NO push buttons, MASTER function, TRIAC technology, visible in darkness
*16609	.B	SLAVE dimmer, supply voltage 120-230 V~ 50-60 Hz for 40-500/40-800 W incandescent lamps and 40-300/40-500 VA ferromagnetic transformers, control from 20148 dimmer, TRIAC technology, visible in darkness



16608  
grey



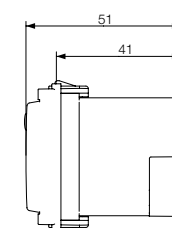
16608.B  
white



16609  
grey



16609.B  
white



### Electronic transformer

01860.60	Dimmerable electronic transformer for extra low voltage halogen lamps, 20-60 W, 12 V~ (SELV) output, supply voltage 230-240 V~ 50-60 Hz
01860.105	Dimmerable electronic transformer for extra low voltage halogen lamps, 20-105 W, 12 V~ (SELV) output, supply voltage 230-240 V~ 50-60 Hz



01860.60



01860.105