

GB

DIMMER FOR RESISTIVE AND INDUCTIVE LOADS

INTRODUCTION

The dimmer (items nos. 441048SU and 442048SU) is a control with incorporated touch sensor. It has an output with combined TRIAC + IGBT technology. It can be controlled locally and from various points with NO buttons. Leds allow the control to be seen in the dark.

TECHNICAL SPECIFICATIONS

- Overall dimensions: 1x S44 module
- Protection degree: IP40
- Three poles terminal board accessible on the back
- Voltage input: 230 Vca 50 Hz
- Variation allowed: $\pm 10\%$
- Input: 23,5 mA at 230 Vca (1,3 W)
- Sensitive front area: the entire front of the apparatus (see fig. 1 area A1)
- "2 wire" connection (in series with controlled load)
- Static output with TRIAC + IGBT combined technology
- AC controllable loads:
 - 40-400 W incandescent and halogen lamps
 - ferromagnetic transformers for low voltage 40-400 VA halogen lamps

- **electronic inductive transformers type  OSRAM HALOTRONIC HTM 70/230-240, HTM 105/230-240, HTM 150/230-240 (*)**: 40-300 VA (*) **do not use more than 4 transformers on the same line**

- Switch on, dimming and switch off:
 - rest the finger gently on the plate near the entire front of the device (see fig. 1)
 - from various points with touch buttons for remote control (code 442TC05) or NO buttons connected to the phase

N.B.: the remote control push switch may be installed at 100 metres max. from the light with conductor of 1.5 square millimetres. An auxiliary relay should be used for longer distances

- Gradual switching on (Soft start) and gradual switching off (soft end): contribute to prolonging the life of the lamp. In particular soft start reduces the stress to the filament when switching on and avoids a blinding effect on people
- Possibility of easily setting the search for maximum luminosity
- **Status memory: when the load is switched off it guarantees the memory of the light level that was set (even in the case of power failure)**
- Front Led (L1) for locating in the dark (see fig. 1): when the hand approaches, the LED emits a brighter light.

OPERATION

Rest the finger gently on the plate and the light switches on, a second brief pressure will switch the light off. Keep the finger near the plate, this will regulate the light intensity in a cyclical manner: light intensity will increase to maximum and then after about 1 second, will decrease to minimum. To invert the regulating direction move the finger away and then move it back near the plate.

With the lamp off, keep the finger near the plate for about 0,3÷2 seconds, the light will switch on to maximum intensity (soft start).

INSTALLATION

The switch can be flush mounted, in rectangular or square boxes or round boxes \varnothing 60mm **with 45 mm minimum depth** or installed on a wall or table with Ave enclosures.

WEATHER CONDITIONS

Temperature and relative humidity of reference: 25°C Rel. H 65%

Operating environment temperature field: from -5°C to +35°C

Maximum relative humidity: 90% at 35°C

Max altitude: 2000 a.s.l.

COMPLIANCE WITH REGULATIONS

EN 60669-2-1

CONNECTION DIAGRAMS (fig. 2)

The feed circuit (L-N) must be protected against overloads by a rapid fuse with high break power

WARNINGS

- Electronic device, handle with care
- It is recommended not to install more than one dimmer in the same box. Otherwise (2 or more devices), they have to be installed spaced and the controlled load must not exceed the 800W all together.
- Do not connect two or more dimmers in series.
- Never exceed the stated rated power.
- Do not expose the dimmer to the direct effect of heat sources: warning of the front side of on duty devices is normal

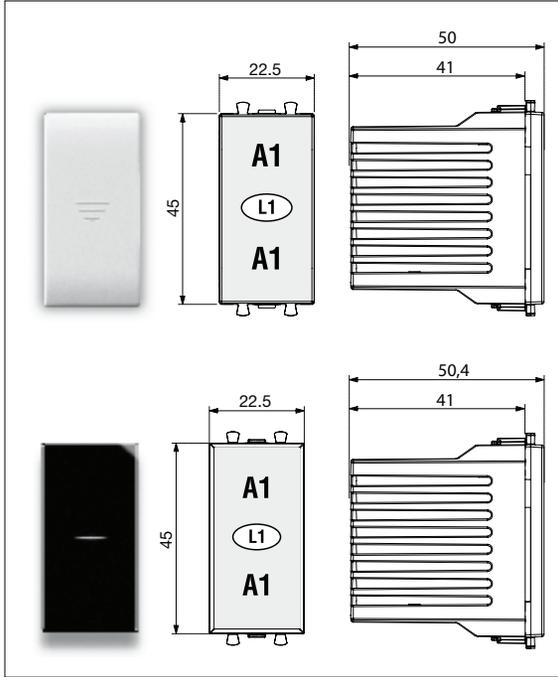


Figure 1

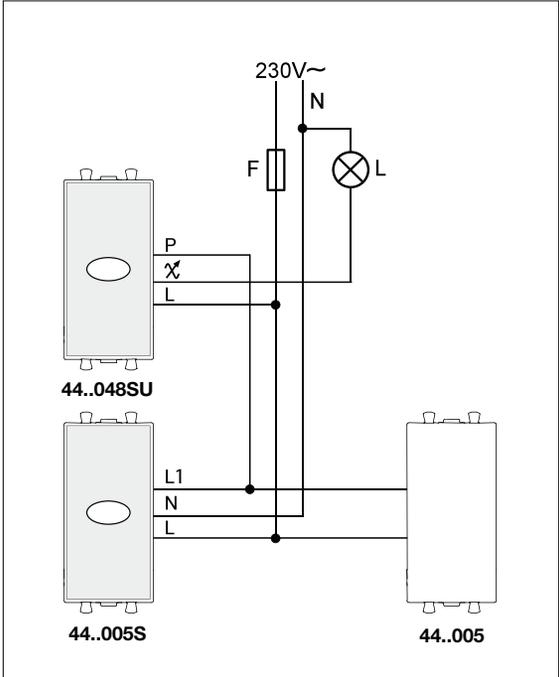


Figure 2

Legend

- L: load
- F: fuse type F 2A H 250V~

IMPORTANT NOTES:

- Products should be sold in their original packaging. Otherwise, the retailer and/or installer is obliged to follow, as well as to communicate to the user, the instructions for use which are supplied with the product and/or are published on the website www.ave.it as well as in the current product catalog.
- AVE products are installation products
- Products must be installed by trained professionals in compliance with the installation regulations
- Once the product is unpacked, make sure that the appliance is undamaged. Do not use the appliance if there is any doubt, but contact a qualified technician
- Even before unpacking, the appliance should be handled with care and stored in a dry place at temperatures between -5°C and $+40^{\circ}\text{C}$
- Before carrying out any maintenance on the appliance, cut off the mains power
- Special attention should be paid to the preparation of the cable terminals to be inserted into the appliance terminals so as to maintain sufficient isolation distance between contacts
- When tightening the terminal screws, special care should be taken to avoid overheating which could start a fire or damage the cables.
- The product must be used in dry, dust-free areas
- Suitable products must be used in any other conditions
- There is a risk of electric shock or malfunction of the device if not handled properly.
- Install products and accessories according to the prescriptions in the catalogue and the instructions sheet and in compliance with specific standards and rules
- Warranty certificate for a specific product, which specifies the warranty period and conditions in accordance with local regulations, is issued by the seller at the moment of sale of product

The manufacturer's warranty: The 5 year warranty applies only to damaged or malfunctioning products caused by manufacturer's negligence, taking into account the rights and obligations prescribed by law (art. 1490, 1512 C.C., DL 24/2002, Directive 1999/44/CE, art. 1519 C.C.). The defect must be notified within 2 month from the date it was discovered. Five years are intended from the date of delivery of the product to the final customer.

