

## 44..048AA (System 44) 45..48AA (System 45) Speed regulator for air ventilators with push button dimmer

### TECHNICAL CHARACTERISTICS

- Dimensions: 44..048AA 1 module System 44  
45..48AA 1 module System 45
- Rated current: 230V ~ - 50Hz
- Controlled load: air ventilators, fans and exhausters with auxiliary phase induction motors (\*)  
(\* *The speed regulator is not to be used with:*
  - incandescent and halogen lamps
  - fluorescent lamps
  - toroidal transformers
  - laminar transformers
  - electronic power units
  - drilling machines
  - fan-coil motors
- Adjustable power: 55÷80VA
- Load switch on, regulation and switch off by built-in push button or common, non luminous, parallel-connected NO push buttons
- Three-speed regulator + switch off
- Switch on sequence (always the same): minimum-medium-maximum-switch off
- Blade speed: minimum speed  $\pm$  30% maximum speed, medium speed  $\pm$  50% maximum speed
- "Noiseless" technology
- Luminous front indicator for location in the dark: Led off = set maximum speed
- Installation at maximum 60 m from controllable load
- Operating temperature: 0÷35°C
- Compliance to the standards:
  - CEI EN 60669-2-1
  - Directive BT
  - Directive EMC

### For flush-mounting installation use boxes with:

- 45 mm minimum depth for us 44..048AA
- 50 mm minimum depth for us 45..48AA

### OPERATION

Press the front push button (or any other NO push button) to switch on at minimum speed. Any time the push button is pressed, speed changes first to minimum and then to maximum speed. Press again to switch it off.

The device can also be switched off during minimum or medium speed operation by keeping the push button pressed for more than 0.5 seconds.

Switch on sequence is always the same: minimum speed - medium speed - maximum speed - switch off, either when switch off occurs at the end of this sequence or during minimum or medium speed operation.

Changes from switch off to minimum speed and from minimum speed to medium speed are signalled by the front led switching off and on. Change from medium to maximum speed is signalled by the front led switching off while change from maximum speed to switch off is signalled by the front led switching on again.

**Note:** the speed regulator can also be associated with air ventilators equipped with chain for speed change by simply setting the maximum speed with the chain and the following changes using our speed regulator.

### NOTE

- Do not install more than one speed regulator in the same box
- Do not install two or more speed regulator in series
- Do not exceed the established rated output
- Install the speed regulator away from any heat source (thermostats or chronothermostats).

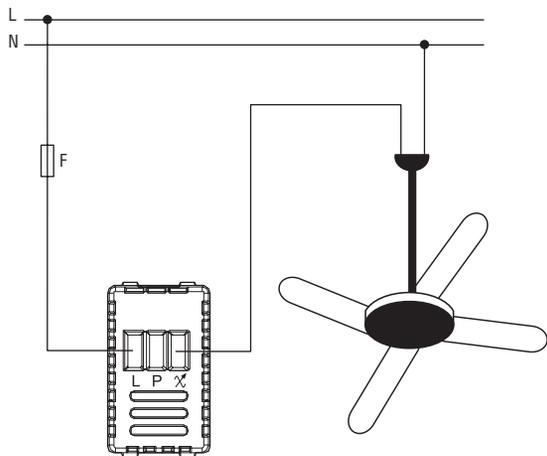
### WIRING DIAGRAM

Dimmer 44..048AA or 45..48AA must be associated with a fuse carrier (for ex. 44..007 or 45..07) with high breaking capacity fuse as shown in the following diagrams:

- Installation of the speed regulator only: changeover control and change by built-in push button (figure 1)
- Speed regulator installed in association with NO push buttons: changeover control and change by built-in push button or parallel-connected normal push buttons (figure 2).

*N.B.: the remote control push button line can be maximum 60 m long, which corresponds to 120 m circuit maximum length with 1.5 mm wire. For longer distance use an auxiliary relay.*

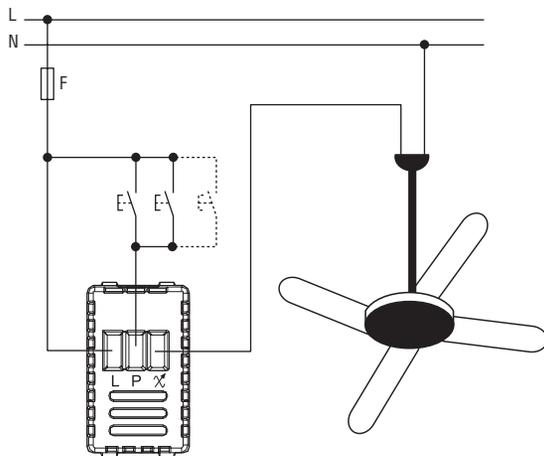
Figure 1



**Legend**

F: fuse type T0,8AH 250V-

Figure 2



C.489 - 04 - 270307

**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](http://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  $-5^{\circ}\text{C}$  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.

