

GB

ELECTRONIC TOUCH PUSH-BUTTON FOR REMOTE CONTROL - 442TC05 "HIDDEN" INSTALLATION

INTRODUCTION

The electronic button 442TC05 is a control with touch sensor built-in. It can be connected to the touch devices 442TC01, 442TC01/2F and 442TC48 allowing the remote control of loads. It can also be connected to devices (eg. light dimmer) that need a NO push button control connected to the phase. It can also directly control a load from 1A to 230Vca. It has leds to help identifying the control in the dark and it is installed "hidden" on the back of the front plates

TECHNICAL SPECIFICATIONS

- Overall dimensions: 1x S44 "hidden" module
- Protection degree: IP40
- Terminal board with 3 terminals accessible on the back
- Power supply voltage: 230 Vca 50 Hz
- Variation permitted: -15% +10%
- Max. absorption: 20,6 mA to 230 Vca (0,3 W)
- Sensitive front area: the entire front of the apparatus (see fig. 1 area A1)
- Static TRIAC output – monostable operation
- Load controllable directly in alternate current: non-inductive ($\cos\phi=1$) 1A at 250Vac
- Command: rest the finger gently on the plate near the entire front of the device (see fig. 1)
- Front Led (L1) for locating in the dark (see fig. 1): when the hand approaches the led emits a brighter light.

Note: should the led light be bothersome, we suggest applying the blue sticker located in the set inside the device (back of the plate), code ETI16.

- Sound signal to confirm that the command has been recognised and to confirm entry/exit from the state of temporary inhibition (see PROGRAMMING paragraph)
- It is possible to set the sensitivity function of the device: at the touch of the plate or at a distance of 4mm from the plate itself (see PROGRAMMING paragraph)
- Temporary inhibition function to allow cleaning of the plate (see PLATE CLEANING paragraph)

PROGRAMMING

There is a two-position Sw switch on the side (see fig. 1), to program the device.

Sound alarms

The sound alarm emitted to confirm the recognition of the command and to confirm the entry/exit from the state of temporary inhibition (plate cleaning) can be excluded by pressing the first switch:

- position ON: sound activated
- position OFF: sound excluded

Sensitivity

It is possible to set the sensitivity of the device, in other words the distance from the front of the plate where there is the identification of the control, acting on the second switch:

- position ON: identification at 4mm from the plate (maximum sensitivity)
- position OFF: identification at the touch of the plate (minimum sensitivity)

Note: it is advisable to set minimum sensitivity when installing two or more controls close to each other

PLATE CLEANING

In order to clean the front plate without continuously activating the output, it is possible to temporarily inhibit the operation of the device by placing a finger near area A1 (see fig. 1) for a time of 10 seconds: a 4 beeps alarm indicates the activation of the state of inhibition. The state of inhibition is signalled by L1 flashing slowly (see fig. 1) and remains for a time of 15 seconds before returning automatically to ordinary operation. After that a 4 beeps alarm will indicate the deactivation of the state of inhibition. It is also possible to access temporary inhibition by removing and re-applying the plate when the device is connected.

INSTALLATION

The switch must be installed on the back of the finishing plates, in rectangular or square boxes or round boxes Ø 60mm

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 m a.m.s.l.

NORM COMPLIANCE

CEI EN 60669-2-1

CONNECTION DIAGRAMS

The circuit (L-N) must be protected against overloads by a rapid fuse with high break power as indicated in the diagrams below:

- 442TC05 paired with touch switch 442TC01 (figure 2);
- 442TC05 paired with touch dimmer switch 442TC48 (figure 3);
- 442TC05 paired with traditional dimmer code 441048U (figure 4);
- 442TC05 for direct control of electromechanical ringers code 441029 or electromechanical buzzers 441030 (figure 5).

Figure 1

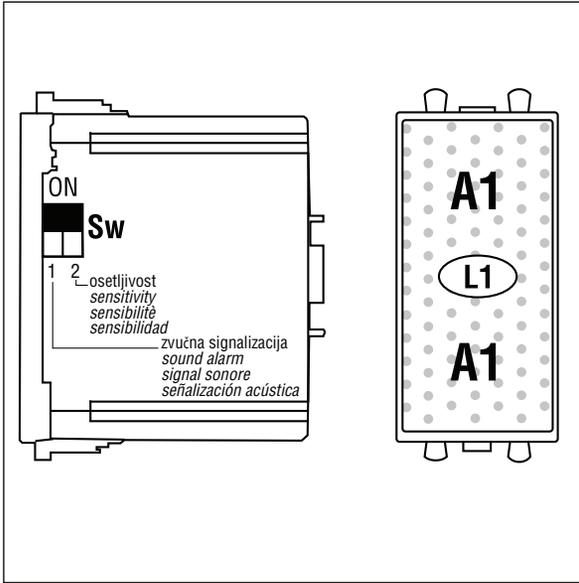
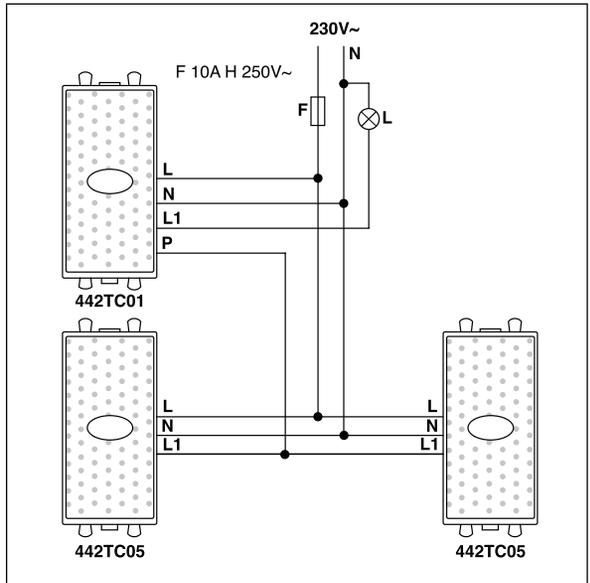


Figure 2



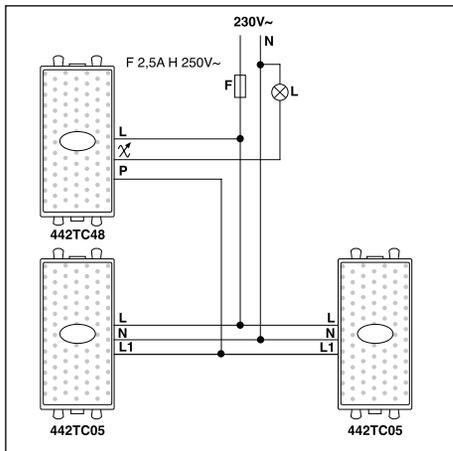


Figure 3

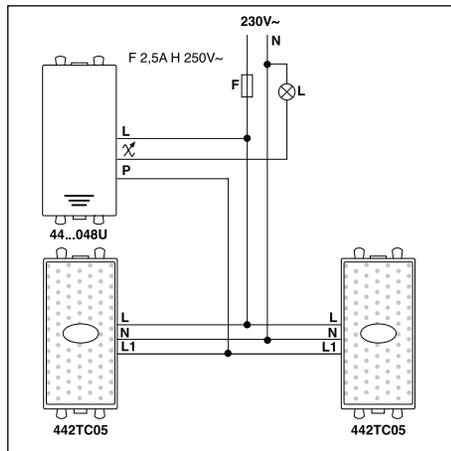
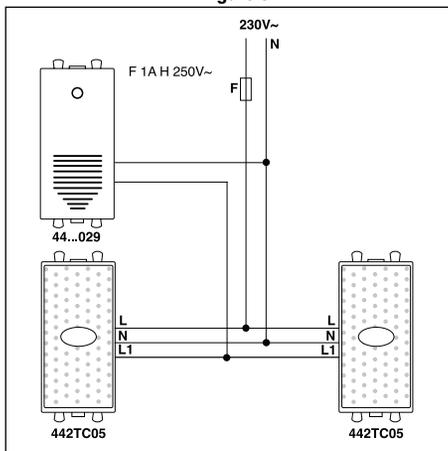


Figure 4

Figure 5



Legend

L: load

F: fuse



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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.

