

GB

ELECTRONIC TOUCH SWITCH WITH OUTPUT RELAY - 442TC01 "HIDDEN" INSTALLATION

INTRODUCTION

The electronic switch with output relay 442TC01 is a control with incorporated touch sensor. It can be controlled locally and from various points with NO buttons. It allows to select a monostable or bistable operating mode. Leds allow the control to be seen in the dark and must be installed "hidden" on the back of the front plates.

TECHNICAL SPECIFICATIONS

- Overall dimensions: 1x S44 "hidden" module
- Protection Degree: IP40
- Terminal board with 4 terminals accessible on the back
- Power supply voltage: 230 Vac 50 Hz
- Variation allowed: -15% +10%
- Max. absorption: 23,3 mA to 230 Vac (1,1 W)
- Sensitive front area: the entire front of the device (see fig. 1 area A1)
- Output relay with 1 contact on closing (cut off phase)
- Type of switchable loads in alternate current:
 - non-inductive load ($\cos\phi=1$): 10 A to 250 Vac - 5A to 30 Vcc
 - incandescent load 10 A to 250 Vac
 - inductive load ($\cos\phi 0.4$): 10 A to 250 Vac
 - fluorescent load corrected: 10 A to 250 Vac
- Controls:
 - 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 (cod. 442TC05) or NO buttons connected to the phase.
- **Status memory: guarantees the memory of the state of the output relay in case of black-out**
- 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 ET116.
- Possibility of excluding acoustic input/output signal from the state of temporary inhibition.
- Allowed output function setting: monostable or bistable (see paragraph on PROGRAMMING)
- 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. The position of the switches is read when the device is connected. Therefore it is necessary to disconnect the device in order to activate programming.

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 first 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

Operating methods

The operating method of the device, monostable or bistable, can be set by acting on the second switch:

- position ON: monostable operation
- position OFF: bistable operation

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 \varnothing 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.

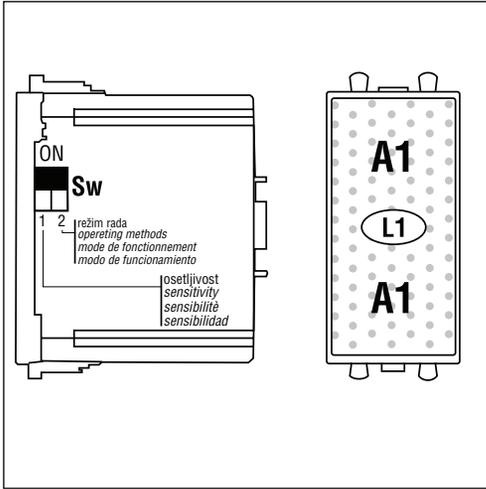
NORM COMPLIANCE

CEI EN 60669-2-1

CONNECTION DIAGRAM (fig. 2)

The circuit (L-N) must be protected against overloads by a fuse with high break power or automatic switch with rated current not exceeding 10 A

Figure 1

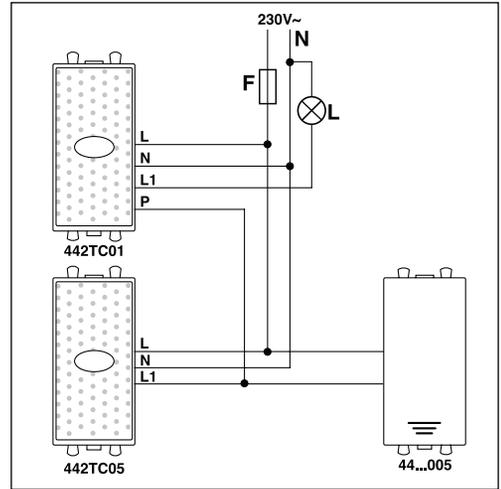


Legend

L: load

F: fuse type T 10A H 250V~

Figure 2



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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°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.