

Universal Receiver

Installation and operation manual

Introduction

The universal receiver allows to an exceptional versatility in the new installations and in those already available. His flexibility is to be able to memorize in an unique receiver, remote controls of different source with fixed and rolling codes and with different frequencies. So the universal receiver allows, in most cases, to unify installations or to replace broken receivers without to change the available remote controls and therefore to guarantee a better service continuity and a minor inconvenience for the users.

Techniques Data

Power supply: from 12 VAC (volts alternating current) to 24 VAC; from 12 VDC (volts of direct current)
Relay contacts: from 2A-120 VAC/2A-24 VDC, 5A-25VAC/5A30VDC (where required)
Maximum storable code: 48

Nb: Each button of a transmitter is the same as a code. For this reason it is good to consider that a radio transmitter with 4 buttons will be memorized in four different positions. The fixed code remote controls, however being equivalent in the codification, it's enough to memorize one of codes so that they all work.

Planning

The receiver planning allows to associate a remote control to an output of receiver. To proceed to the planning please push the P button. The relative LED will flash to the relative exit. Pushing time after time the P button you can select the desired exit, before to proceed to the memorization. After selecting the desired output, push the remote control button that you want associate and hold down it till to the complete storage (all the LEDs remain switched on as fixed during half a second).

The warnings of the LEDs that can appear in the memorization stage are:

FLASHING RELAY LED
Memorization stage. The remote control pressed button is linked to the flashing relay. During this stage please hold down and fixed manner the remote control that you are trying to memorize.

2 SLOW-FLASHES LED RELAY
The button that you are memorizing is a HCS that needs the SEED or it is a HCS not known. If the remote control can transmit the SEED, you have to transmit it in this stage. If the remote control is not known or not to be able to transmit the SEED, continue to push the button that you are trying to store; in this case it will stored as a fixed HCS. Hold down it as long as the storage has not been successful.

ALL SWITCHED ON LEDs

Temporary stage. It shows the end of storage with successful, you can release the remote control button. Then you will visualize the type of memorized remote control.

LED 1	LED 2	LED 3	LED 4	Description
SWITCHED ON	SWITCHED OFF	FLASH	SWITCHED OFF	Number of flashes indicates the remote control type just registered

- 1 FLASH: Memorized remote control as registered.
- 2 FLASHES: Memorized remote control as a rolling HCS.
- 3 FLASHES: Memorized remote control as a fixed HCS.

Cancellation

The remote controls cancellation takes place with an analog procedure to the planning. To delete a remote control proceed holding down the P button. While the relative LED flashes to the relay (we are in the planning stage) push the S button. In this way the receiver have all LEDs switched on: we are in the cancellation modality. In this modality push the relative button at the remote control that you want to delete and keep pressed it as long as all the LEDs will not switch off. Now the remote control has been deleted.

Operation Output Modalities

The outputs receiver are programmable to work on the basis of four modalities: on/off, impulsive, seconds timer, minutes timer. The modalities are selectable and programmable in each moment.

Push the S button to entry in the configuration of operation modalities. The relative LED at the output will flash according to the modality that has been programmed. Push the P button to change the modality. To select the following output push the S button as far as to exit from the outputs configuration. Exit from the configuration modality pushing S to save the selected plannings.

The default receiver has all selected outputs in impulsive modality. The pressure of the P button to modify the modalities flows according to the following order: ON/OFF→IMPULSIVE→SECONDS TIMER→MINUTES TIMER→ON/OFF. The pressure time after time of the P button will be recurrent in the modalities.

modality	☼				☼
modality	☼	☼			☼
modality	☼	☼	☼		☼
modality	☼	☼	☼	☼	☼

ON/OFF MODALITY

In this modality the output is bi-stable. At a pressure of the remote control, the output will be closed, at the following pressure will be opened. The output state is maintained until it reaches an another pressure of an any associated remote controls. Pay attention: the absence power supply brings back the output at his break state that is open.

IMPULSIVE MODALITY

In this modality the pressure of the associate remote control will maintain the output operative relay until the remote control button is not released. Pay attention: possible reception interferences can deactivate the output even if the remote control button is still held down.

SECONDS TIMER MODALITY

In this modality you can set a time, in seconds, after which the output is deactivated. If not set up otherwise, the timer has a basic planning of 30 seconds. Pay attention: the timer is reloaded every time that an associated remote control at those output is pressed.

MINUTES TIMER MODALITY

When one of two timer modalities is selected, follow this procedure to set up the duration:

- While you are in timer modality (seconds or minutes) push the S button for about 2 seconds, the flash will start to be regular (one flash to second).
- Maintain the button pressed and count the flashes number that you want to set up as seconds or minutes (Ex. I count 3 regular flashes to set up 3 seconds/minutes).
- As soon as the flashes have been counted for the planning, release the S button.

Jumper Functionality

Actually it is able a jumper that modifies the receiver functionalities: (P5) - JUMPER FIXED FREQUENCY:

Inserting the P5 Jumper, the receiver locks the frequency where it remain listening to the first memorized. The memorized remote controls in the receiver with different frequency from the first memorized cannot be used. To use the FREE FREQUENCY modality it is advisable to do the reset of the receiver, to place the P5 jumper and then to memorize the transmitter with the desired fixed frequency. The remote control with the equal frequency to that of the first remote control will be accepted, whereas those with different frequency will be refused if you try to store with the active FIXED FREQUENCY modality. If a remote control is refused, it is advised by the suggestion OUT UNIQUE FREQUENCY.

Error warning

The warning error identify with others flashes because the relative LEDs to 1 and 2 relay are fixed switched on. When this happens, compare the behavior of other two LEDs with the chart underlying to understand the error type in progress.

LED 1	LED 2	LED 3	LED 4	Description
SWITCHED ON	SWITCHED ON	FLASH	SWITCHED OFF	OUT UNIQUE FREQUENCY
SWITCHED ON	SWITCHED ON	FLASH	SWITCHED OFF	NOT FOUND CODE
SWITCHED ON	SWITCHED ON	FLASH	FLASH	FULL COURIER CODE
SWITCHED ON	SWITCHED ON	FLASH	FLASH	FULL COURIER FREQUENCIES

OUT UNIQUE FREQUENCY:

the jumper fixed frequency is inserted and you are trying to memorize a remote control with a different frequency by that where the receiver is locked.

NOT FOUND CODE:

you are proceeding to the cancellation of a remote control. But, in this case, the remote control that you want to delete it is not available in the receiver or it has been wrongly understood. Please, try again if need be the procedure.

FULL COURIER CODE:

the receiver frequency is full and you are trying to memorize an other remote control. Delete a not used remote control and try again.

FULL COURIER FREQUENCIES:

you are trying to memorize a remote control that has a frequency still different by those earlier memorized.

Since the ability receiver to memorize different frequencies is limited, it will not be available to memorize the remote control at issue.

Receiver reset

To do a receiver general Reset proceed in this manner:

- Push and maintain hold down the P button and the S button for 10 seconds
- Release the buttons when all the LEDs will start to flash quickly.

The LEDs will can present the following configurations:
ALL LEDs FLASH QUICKLY: Reset in progress. It is possible to release the P and S buttons. When the Reset will finish all the LEDs switch off.