

RAVFR Rako Volt Free Switch to Rakom RF Interface – Installation and Operating Instructions.

General

The Rako RAVFR is a volt free contact to Rakom RF interface. Volt-free contacts can be used to select 4 scenes and off plus the master raise and lower functions. The volt-free inputs could be from contact closures of an alarm system, entry gates, passive infra red device etc, allowing simple wireless interfacing to the Rako control system.

Basic configuration can be achieved using standard Rako control panels or hand controllers but the Rasoft software package and PC node are required for access to more advanced user functions.

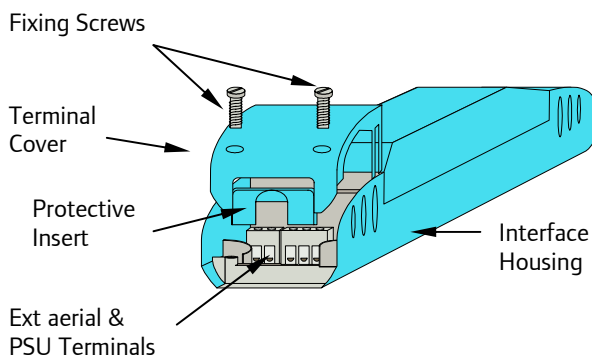


Fig 1.
Front View of Components

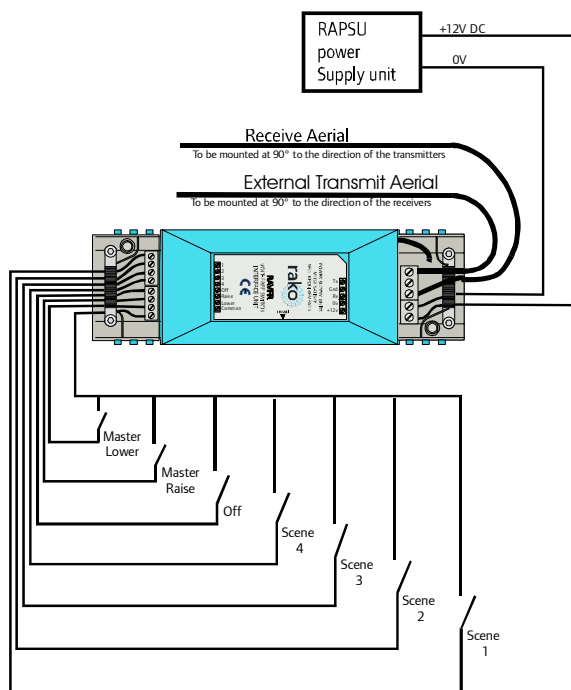


Fig 2.
Connection Detail

Installation

Before commencing installation of the Rako RAVFR interface module first read this instruction manual carefully.

Rako Controls Ltd accepts no responsibility for any damage or injury caused by incorrect installation of a Rako product.

The RAVFR is designed to interface volt-free contacts to the Rako control system. Up to 7 contact closures can be connected to the RAVFR allowing selection of the four scenes, raise, lower and off functions. As standard switch inputs should be normally open although this can be altered if the user has access to the Rasoft software package.

The RAVFR unit requires the use of the RAPSU external power supply or other 12V d.c. power supply conforming to SELV requirements. Connect the power supply and the volt free switch inputs as required and as shown in Fig. 2 opposite.

Setting the RAVFR House and Room addresses.

In order for the RAVFR unit to control the appropriate Rako receiver modules it is necessary for the unit to be set to the same House and Room address as those receivers.

The procedure for setting the address is as follows: (Refer to individual sections for details on each procedure).

- Put a wall plate (or RAH07 hand controller) that currently controls the appropriate receivers into programming mode.
- Put RAVFR module into set-up mode using the magnet provided.
- Press the ident button.
- Exit programming mode on wall plate.

(The above Ident function is also available from the RASOFT software package, allowing the unit to be addressed without using a wall panel. Simply select the relevant house and room address on the main screen, ensure the channel is not set to 'ALL' and then hit the Ident button. The receiver must be in set-up mode.)

Putting Wall plate into programming mode.

Press and hold a scene button (one of the four numbered buttons on the left hand side of the plate) and at the same time press and hold both the raise and lower buttons (the right hand buttons). After 3 seconds the LED will start to flash, the plate is now in programming mode. To exit programming mode press the Exit button (see Fig. 4).

To select an appropriate channel, press button 1 at least once and not more than 15 times (this selects a channel address other than 0, which is not valid).

Note:

If the Exit button is not pressed or any other buttons pressed the panel will exit from programming mode automatically after 3 minutes.

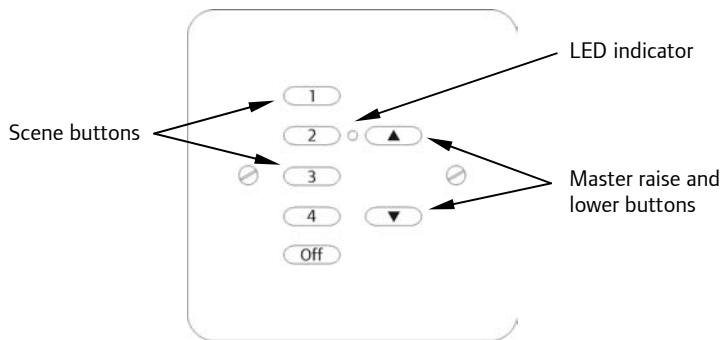


Fig 3.
Wall-plate buttons in normal mode

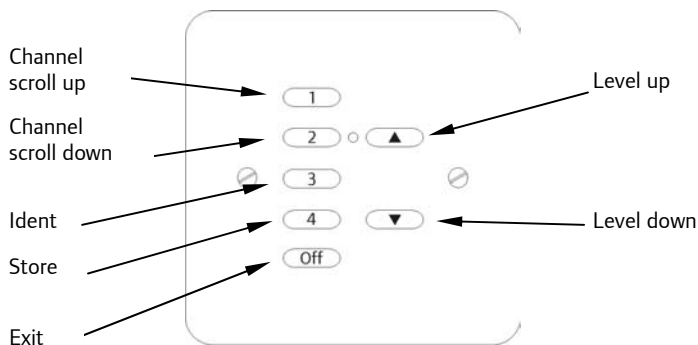


Fig 4.
Wall-plate buttons in programming mode

Putting the RAVFR into set-up mode.

The RAVFR is put into set-up mode as follows:

Firstly ensure that the unit has been connected correctly, then, using the small magnet provided with each receiver, press the magnet against the receiver casing just over halfway down (see Fig.5). The approximate position for this is indicated by the 'magnet point' legend on the top label. When the magnet is in the correct position an internal LED will illuminate. The LED will stay on with a steady illumination all the time that the magnet is in the correct position. Hold the magnet in this position for 3 seconds until the LED starts to flash. The receiver is now in set up mode.

Approximate position for Rako programming magnet.

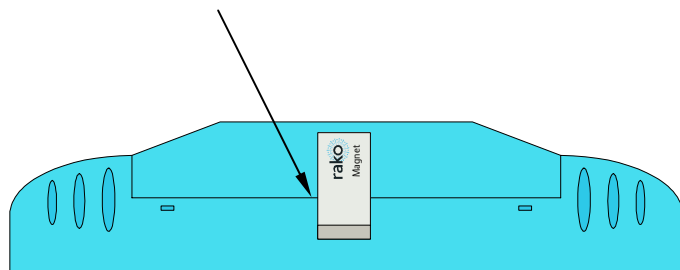


Fig 5

To send a valid address to the RAVFR unit press button 3 on the control panel (with the panel in programming mode and a valid channel selected). This will now send the House and Room address of the control panel to the RAVFR module, which once it receives the Ident command the RAVFR module will automatically drop out of set-up mode.

Advanced Functions (requires Rasoft software package)

Configuration of switch inputs.

Open the RASOFT program and on the main screen select the **Controls** menu then **Volt free setup**. This opens the screen as shown in Fig 6. below. Having selected the appropriate settings for the module clicking the Update button will then download the settings to the RAVFR module.

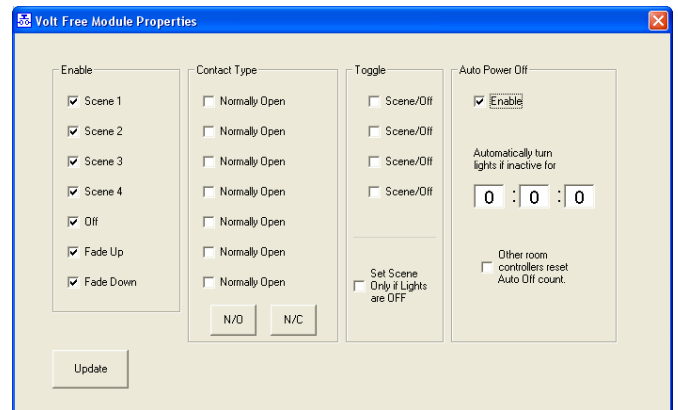


Fig 6
Volt free setup screen in RASOFT

Enable

As standard all of the inputs are enabled but un-checking the Enable check box disables an input.

Contact type

The default setting for a RAVFR unit is to accept normally open switch inputs. This can be changed to normally closed either for all inputs by clicking the main N/C button at the bottom of the Contact type panel or for individual inputs by checking each inputs check box.

Toggle

Each of the four scene inputs can be activated to toggle between their respective scenes and Off. Ticking the relevant scene box activates this function which could be used for connecting momentary push switches to the Rako system.

The other check box in this section is "set scene only if lights are off". This feature will only allow an inputs to trigger a scene change if the lights are in the off state. This is particularly useful if, for example, the switch input is from an occupancy sensor and it is not desirable to have the sensor continuously trying to turn the lights to 'full' while someone is in the room. As the unit continuously monitors other devices in the room, it is aware of the current state of the lighting and can thus correctly sequence the above functions.

Auto power Off

If the auto power off is enabled the Off scene will be selected after the time specified in the time box. The timer is reset whenever an input is received on the RAVFR. The timer is in HH:MM:SS with a maximum delay time of 35:59:59 allowed.

By selecting the check box 'other room controllers reset auto off count' then the selection of a scene from any other device in that room will also reset the delay counter.

Rako thanks you for having purchased a Rako product and hopes that you are pleased with your system. Should for any reason you need to contact us please contact us via our website www.rakocontrols.com or by phoning our customer help line on 0870-043-3905