

## Introduction

The IR-44 is designed to allow I/R remote control of 4 independent dry contact relays. Each of the relays can be individually configured to momentary closure (for as long as the I/R code is transmitted) or to toggle on and off each time the I/R transmitter button is pressed. Connection to the relay NO and NC contacts is made using plug-in connectors which are supplied. The relays are capable of switching 230V/50-60 Hz, 5-Amp loads.

An I/R detector on the front panel receives incoming I/R signals. It is also possible to connect an external remote I/R receiver or an I/R detector module at the IRX connector located on the rear panel which allows wired I/R remote control up to several hundred meters from the IR-44.

The status of each relay can be visualized on the four yellow LEDs located on the front panel. Also located on the front panel is a green LED indicating presence of the power supply and a red LED which is lit when a valid I/R code is received.

## Connections

- **Power** : Connect a 12-Vdc power supply such as the PS12-600 to the 2,1MM jack on the rear panel.

- **Relays** : Each of the relays is accessible through its NO et NC contact symbols on the rear panel. The maximum ratings of 230V/50-60Hz and 5A should not be exceeded however it may also be prudent to provide external protection for inductive loads such as motors to prevent arcing at the relay contacts.

- **External I/R Control** : a remote I/R relay receiver module such as the Corvo IRR-10, IRR30 or IRR-31 can be connected by a 3-wire cable up to several hundred meters from the IR-44. Failure to connect strictly in accordance with the indications on the rear panel and the I/R remote module could cause irreparable damage to the remote module.

## Settings

- **Relay Function** : 4 two-position jumpers located on the printed circuit board (PCB) as shown on the drawing, must be set to determine the action of each relay when its I/R code is received. The "M" position of the jumper causes a momentary closure of the relay lasting as long as the I/R code is received. The "L" position of the jumper produces a latched/toggle operation in which each time the I/R transmitter button is pushed, the relay changes state. Factory setting is all relays in the "M" position.

- **RC5 Address** : The IR-40 uses RC5 codes which provide for a "system address" to distinguish between two or several devices using the same command codes. The IR-44 can be set to addresses 24, 25, 26 and 27 by the two DIP switches A0 and A1 shown on the drawing. These settings are as follows :

SW0	SW1	ADR
ON	ON	24
OFF	ON	25
ON	OFF	26
OFF	OFF	27

The factory setting is **ADR27**. Other addresses can be selected but the remote control transmitters must also be set accordingly.

- **RC5 Sensor Line** : It is also possible to operate several IR-40 units in the same I/R environment by setting different RC5 sensor line parameters. A two-position jumper shown in the PCB drawing has positions A and B which give the following results :

Position	Valid RC5 sensor Lines
A	S0, S1, S4, S5
B	S0, S2, S4, S6

The factory setting is position A.

## Operation

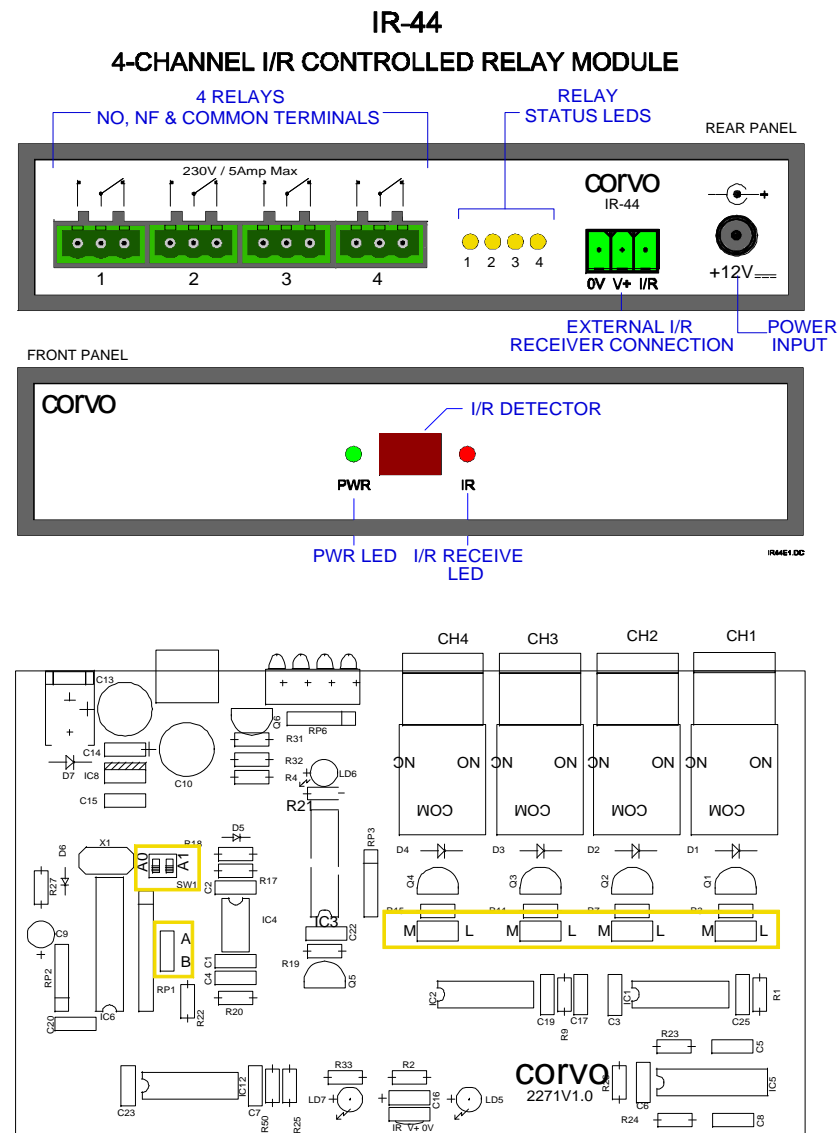
- After completing settings and connections in accordance with the above information, connect to the mains power supply. The green LED on the front panel lights and the IR-44 is ready to receive I/R commands in accordance with the RC5 code list below.

- Sending a valid (correct RC5 format and the right address) I/R command causes the red I/R LED to light for as long as the code is received. If the received code corresponds to the code set for one of the four relay channels, that relay's yellow status LED will light either momentarily or continuously depending on the way the relay has been set.

24, rue Jacques Ibert  
92300 Levallois-Perret - France  
S.A.R.L. au capital de 20 000 euros  
SIRET 440 545 903 00013 / 516 J



Tel. 33 1 47 59 50 05  
Fax 33 1 47 59 50 33  
http://www.corvo.com  
E-mail : corvo@corvo.com



## Technical specifications

### RC5 Code List

Channel Number	RC5 Code
1	01
2	02
3	03
4	04

Number of Relay Channels : 4  
Relay Ratings : 230V/50-60Hz, 5 Amps maximum  
Power Requirements : 12Vdc / 600mA  
Remote Control Codes : RC5, System ADR 24, 25, 26 or 27  
Mass : 262Grs (9.2Oz)  
Operating Temperature Range : 0 to 40°C (32 to 104°F)  
Storage Temperature Range : -20 to 60°C (-4 to 140°F)