

# Overview

“SRCR 180A USA” and “SRCR 200A USA” control unit has been designed for the control of a single-phase asynchronous motor used for the automation of shutters, gates, rolling shutters or awnings.

The integrated receiver work on the 433.92MHz band. The apparatus is intended to be operated inside a plastic enclosure. The automation works with the, “SRCH” families of transmitters, “SRCK 650 USA” and “SRCK 640 USA” radio sensor.

## Description of the product

### **SRCR 200A USA**

The circuit consists of:

- The power supply circuit, powered with 120 Vac current, between T1, D13, D14, and C33, transform it in about 24 VCC for the relay coils and between IC4 in 5VCC for the other circuits. We have maintained 2mm of distance between 120 VAC working circuit and the heart circuit.
- The integrated circuit IC1, which is a single super heterodyne receiver; the signal reaches pin 14 through the insulated antenna and an Y2 Class capacitor. Intermediate frequency (IF) is equivalent to 10.7 MHz: the local oscillator, whose precision is guaranteed by the Quartz in a PLL circuit, oscillates at about 423.22 MHz. The clipped signal exits from pin 25 of the IC1 and is suitable for application on the digital Decoder.
- A circuit that recognises the code (Central-Decoder IC3) that activates one of its outputs AP-CH depending on which button is pressed in the transmitter or the state of sensor inputs. The RL1/RL2, RL3/RL4 relay are activated with only one of these outputs. Central-Decoder Clock operation is guaranteed by a 4 MHz Cristal.

### **SRCR 180A USA**

The circuit is the same of SRCR 200A USA, but only for one motor output.