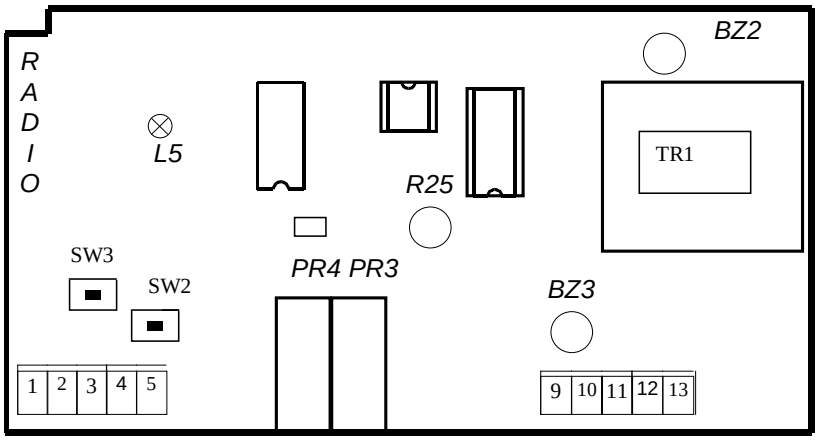
CRS-435XG

CONTROL UNIT

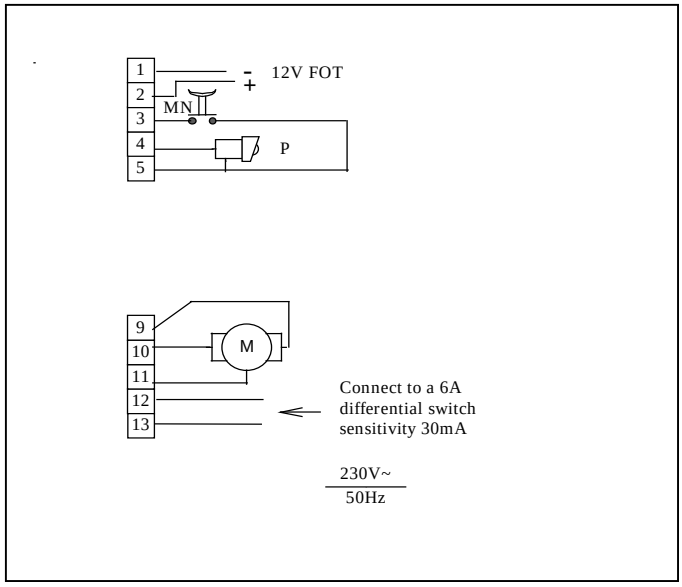
Hopping codes-never the same code is transmitted!



SW2, SW3 - learning switches
SW1 - only in CRS-436XG
R25 - opening/closing time potentiometer
PR3..PR4 - relays
L5 - current mode LED
RADIO - radio connector
TR - power transformer
1-5,9-13 - motor, photocell, opening/closing limit switches connectors
G4 - only in CRS-436XG
BZ1 - only in CRS-436XG
BZ3 - 315mA Fuse
BZ2 - 3.15A Fuse – M2 motor power

PARAMETERS

Supply voltage	230VAC
Current consumption	35 mA / Stand-by
Radio frequency	433.92 MHz
Antenna impedance	50Ω
Relays	JW1aFSN (10A/250VAC)
Number of channels	1
Range	~150 m



Wiring to terminal strip

4,5 Photocell [**P**] (normally closed)
3,5 Manual button [**MN**] (normally open)
9 Open wire [**M**]
10 Close wire [**M**]
11 Common wire [**M**]
12,13 ~230V/50Hz

General description.

This unit is to control 230VAC motors. One unit can control one motor.

CRS-435XG unit can be controlled in two ways: by use of the manual button or by use of the remote control units. Safety devices (photocells and others) can be connected to the unit.

Signals from RCU or local button will cause such a sequence:

One direction move; Stop; Opposite direction move; Stop; And so on

As long as the signal (open circuit) from photocell is present on the corresponding input the closing will be blocked. The time the power is being supplied to the motor can be adjusted in range of 10 up to 120 seconds.

The time of opening or closing phase can be adjusted by means of the R25 potentiometer. The time adjusted by R25 must be longer than time required to open and to close the gate.

Wiring.

Power (230VAC) should be connected to terminals **12(N) and 13(L1)**. For safety reasons a 6A differential switch-sensitivity 30mA has to be used. Terminals **9, 10, 11** are to be connected to the motor.

The ground of unit is available on terminals **1 and 5**.

Photocells should be connected to terminals 4 **and 5**. Manual button M should be connected to terminals **3 and 5**.

In any case if photocells are not used the short wire must be on 4 and 5 terminals.

Photocell should be normally closed device.

Programming of the unit.

Unit can be controlled by up to 15 different RCU. Every RCU has different number - that is why every unit must be preprogrammed to cooperate with particular RCU. To do that we have to enter so-called learning option. Pressing and holding SW3 switch achieve this. The **L5 (**red LED) will light for about 1 sec indicating that learning option has been entered. The number of 0.5sec flashes will inform us how many RCU are learned already by unit. If there is no flashing it means that unit is not preprogrammed. To teach the unit to cooperate with particular RCU we have to press the button on this RCU (still holding SW3) until L5 will light for about 1 second. This is the confirmation that unit is ready to cooperate with this RCU. After this the unit will show the number of RCU preprogrammed by the number of 0.5 sec. flashes. If the number after the teaching has increased by 1 it means that this RCU has been registered. If number of flashes has not increased that means that this RCU had been registered before or that unit has registered 15 RCU. To be back in normal option you have to release SW3 switch. The L5 will light for about 2 seconds confirming that normal option has been entered. Registered codes are stored in EEPROM so they are safe in case power is off.

Erasing of registered codes.

If there is such a need all registered codes can be erased. This is possible by pressing SW3 and SW2 at the same time

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