

ICON – WRX – 8 Channel Radio Receiver

Contents

Description	Page
Product Description & Features	1
Remote Control Function	2
Programming Remote Controls	3
Programming Wireless Detectors	4
Wireless Detector Low Battery & Tamper Warning	5
Master Default Setting	5

Overview

Your MCM Electronics **ICON-WRX** is a state of the art narrow band wireless receiver, specifically designed to operate with certain MCM Electronics Security Alarm Control Panels.

Main Features include:

- ◆ Simple Installation - No EOLR required between receiver outputs & zone inputs – 10k
- ◆ 12 volt Dc operation.
- ◆ Code Hopping Remote Control Technology (remotes can not be copied by scanning or code grabbing).
- ◆ Remote Functions include Arm, Disarm & Panic.
- ◆ Ability to quickly add or delete detectors from your system.
- ◆ 5 Wireless Detector Zones Available.
- ◆ Low Battery Warning Output
- ◆ Sensor Tamper Warning Output
- ◆ Intelligent “Sensor Learning” to prevent accidental code duplication.
- ◆ Wireless Detectors available include PIR's, Internal or External Reed Switches, Smoke Sensors & Wireless Emergency Pendants.

Operation



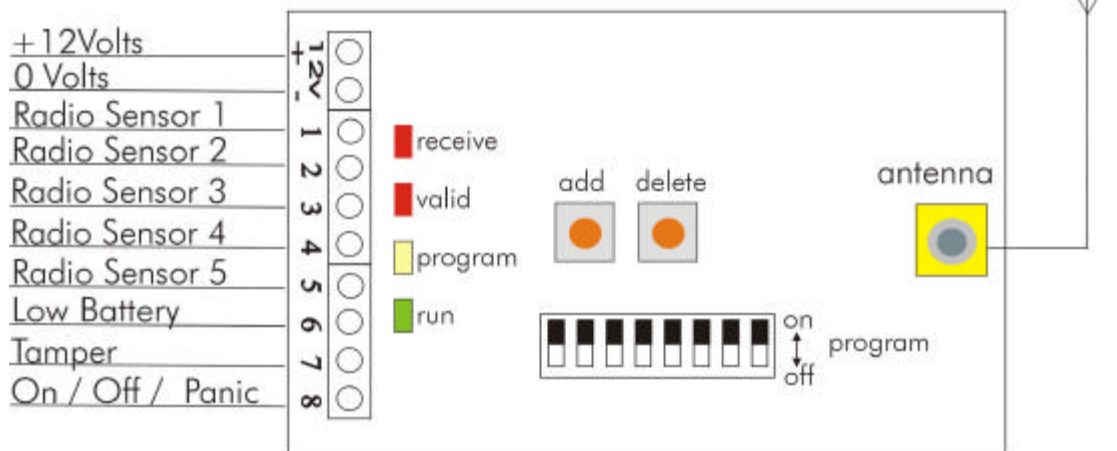
ARM/DISARM: Press the yellow button once for 1 second.

PANIC: Activate by pressing & holding down the yellow button for at least 3 seconds. This sets off the siren. To cancel "panic", press the yellow button **once**.

Connections

The antenna wire provided is to be screwed into the terminal shown in the diagram above. Keep the antenna vertical & straight. Mount the receiver inside the top of your panel box, with the maximum possible length of antenna extending from the top.

10k resistors are inbuilt
in the receivers 8 outputs



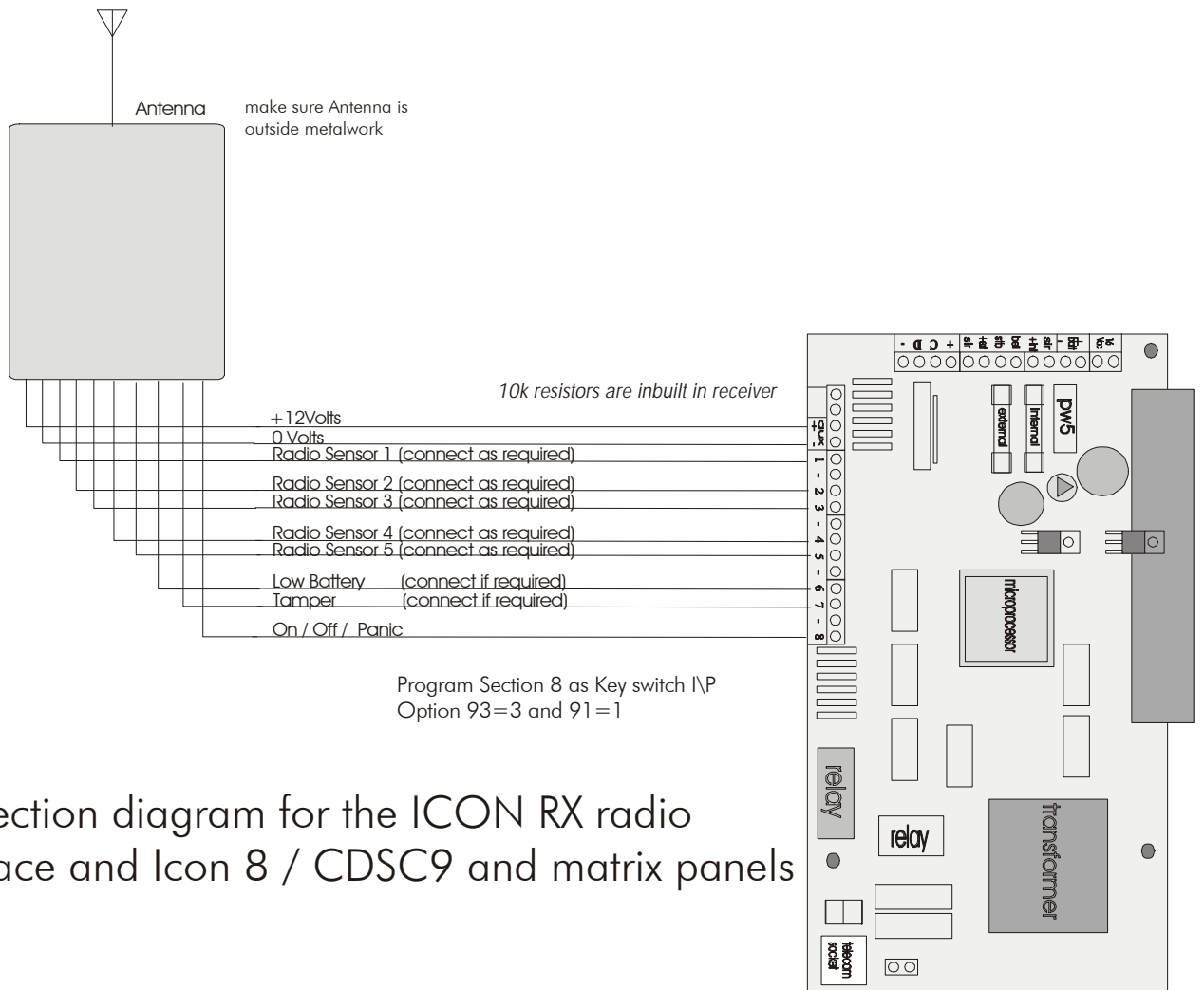
Receive: On when any data packets are received
-even if devices are not programmed.

Valid: On while valid data is decoded.
e.g. while Tx is pressed or PIR is transmitting
Flashes six times when in program mode
and valid data is received.

Program: On when any switch is in the "on" position,
Flashes if more than one switch is in the on position.

Run: Normally flashing at 0.5 Hz.
- indicates microprocessor is running.

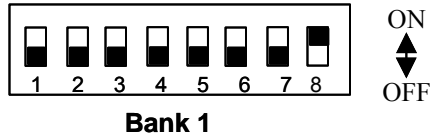
IMPORTANT NOTE: When installing any wireless device, make sure that it is at least 5 METRES AWAY from the receiver.



Connection diagram for the ICON RX radio interface and Icon 8 / CDSC9 and matrix panels

To Add a Remote Control

1. Set dipswitch Number 8 **only** to the ON position. The yellow Program LED will come on. (If the Program LED flashes, check that, you don't have more than one dipswitch set to on).



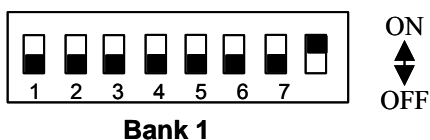
! IMPORTANT

When programming, make sure that no other detectors are transmitting, as they will interfere with your programming procedure.

2. Press & Hold the button on your remote.
3. Press the Add Button. The red Valid LED will start flashing.
4. Now release the button on the remote. The red valid light will turn off.
5. Repeat steps 2 - 4 for any extra remotes that you wish to add. Maximum of 5 can be used.
6. Return dip switch 8 to the OFF position. The yellow program light will turn off.

To Delete all Remote Controls

1. Set dipswitch Number 8 to ON. The yellow Program LED will come on. (If the LED flashes, check that, you don't have more than one dipswitch set to on).



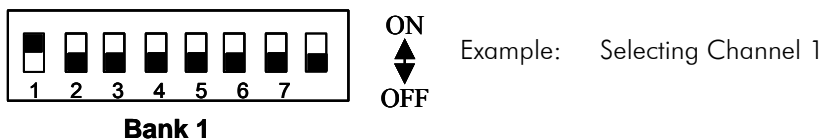
2. Press the Delete Button.
3. All remote controls will now have been erased from the memory of the receiver.
4. Return dip switch 8 to the OFF position. The yellow Program light will turn off.

To Add a Sensor

Wireless PIR, Reed Switch, Smoke Sensor, or Emergency Buttons

1. Select the Zone (1-5) that you wish to program a detector into. The yellow Program LED will come on. (If the LED flashes, check that, you don't have more than one dipswitch set to on).

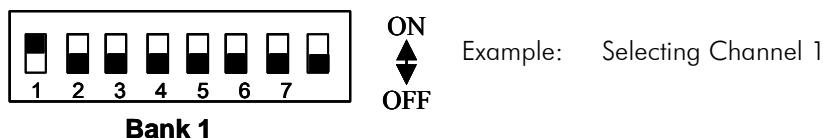
Note: Learning a new detector into a zone which already had a detector learnt into that zone, will erase the original detector's code & replace it with the new detector's code. Also, if that detector code has previously been learnt into another zone, the receiver will automatically delete the code from the original zone and learn it into the new one.



2. Press the Add Button. The red Valid LED will start flashing.
3. Now trigger the sensor. The valid light will stop flashing once the detector has been successfully programmed.
4. Return all dip switches back to the OFF position. The yellow program light will turn off.

To Delete a Sensor

1. Select the Zone (1-5) that you wish to delete a sensor from. The yellow Program LED will come on. (If the LED flashes, check that, you don't have more than one dipswitch set to on).



2. Press the Delete Button.
3. The sensor will now have been deleted from the receiver's memory. You can test this by triggering the detector, and watching that the Valid LED no longer illuminates on your receiver when the detector transmits, and also by watching that the Zone LED no longer illuminates on your MCM Keypad.
4. Return all dip switches back to the OFF position. The yellow program light will turn off.

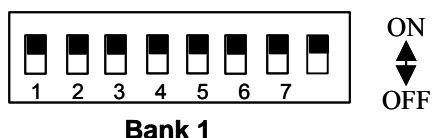
To Default the Receiver

(delete all sensors and Remotes)

You can default your *ICON - WRX* in case you make a mistake, or are unsure of your receiver setup. "Defaulting" your receiver will cause all detector & remote codes to be erased.

To default your receiver, follow these steps:

1. Set all dipswitches on Bank 1 to ON.



2. Press & Hold the delete button for 1 second.
3. All LED's on the receiver will flash once together to confirm that the receiver has been defaulted.
4. Return all dip switches back to the OFF position.

Other information

- Your detectors will automatically transmit a low battery report to your *ICON - WRX* receiver when the batteries are nearly flat.
- The low battery report code is also transmitted after the alarm code, every time a detector is triggered.
- The *ICON - WRX* will give a Low battery output (it will switch low for 1 second) to indicate that the detector has a flat battery.
- The tamper output will switch low for 1 second whenever the front case is removed and the tamper switch is operated on a Wireless PIR Detector or Wireless Reed Switch.