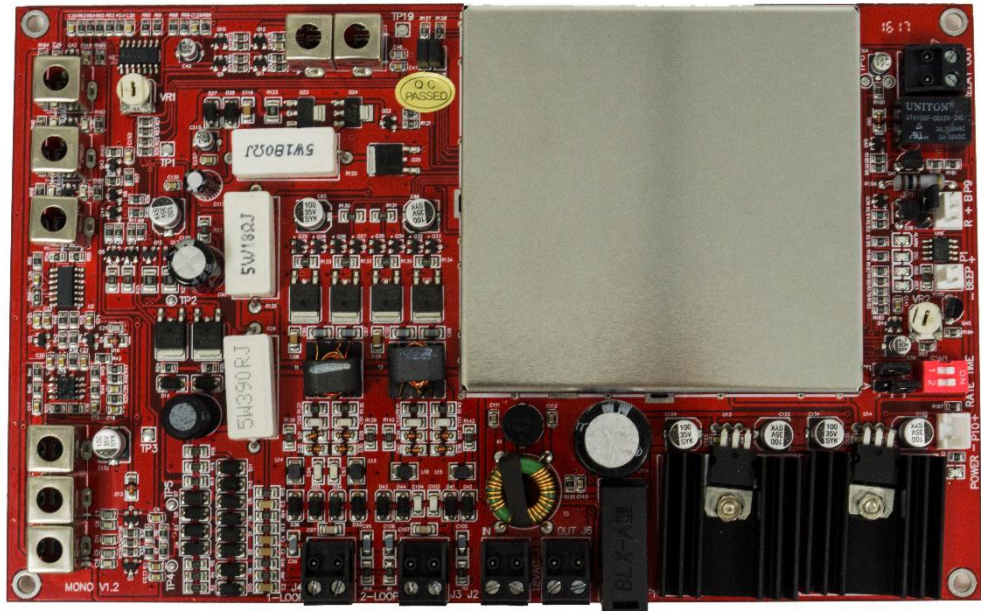


# EAS RF system

## TST9900S4



## Installation Manual

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# System Overview

The MONO Transceiver system is a multi-loop single panel 8.2MHz system that provides enhanced detection when compared to a conventional system. It can operate on its own or with multiple systems but without the need of synchronization.. The installation is simple with just one tuning point for sensitivity. Each panel have independent alarm and warning light.

## Important Precautions



### PRECAUTION

Distanc between antannas and metal framed door >0.5m. Make sure that metal frames in the vicinity of the system are electrically connected together.



### PRECAUTION

The system will best function if position away from cashier, computer, data transmission line, power cable, fluorescent light, etc. To maximize sensitivity, a distance of not less than 1.0m is recommended.



### PRECAUTION

To avoid any interference caused by other electronic appliances, the system should be powered by an independent power source. The power socket should adhere to safety standard and grounded.



### PRECAUTION

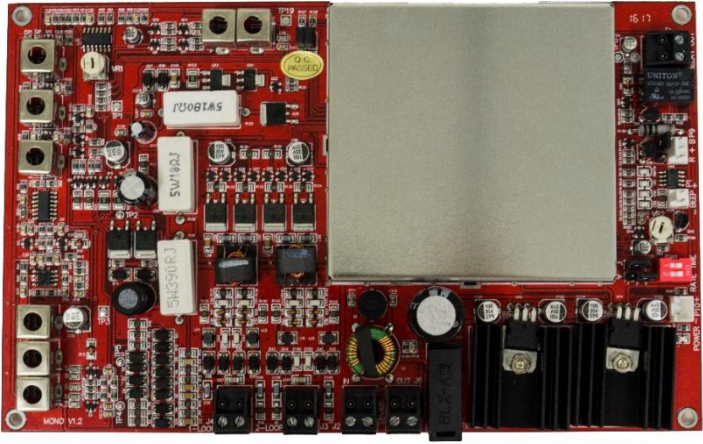

Mono system will receive TX/RX system interference, in use at least to ensure that with the TX/RX system between more than 10m from the safe distance.



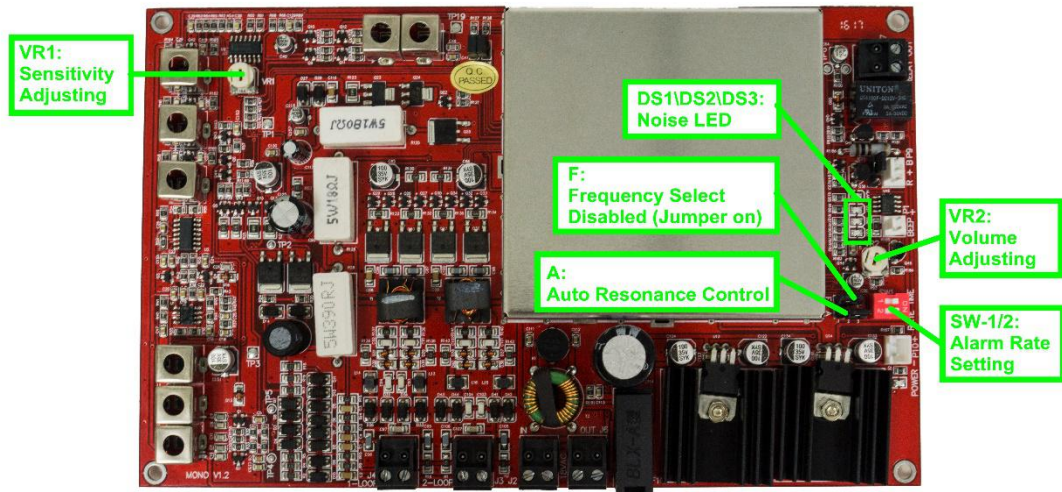
### PRECAUTION

As an example,a metal fence is not firmly fit together it could by a small movement reach a capacitance between its parts so that it acts as a perfect tag.If the signal has the same pattern as a label or hardtag it would set the alarm off.

# Components

|  |   |
|--|---|
| <p><b>Motherboard</b><br/>TST9900S4</p> <p>210*130mm</p>       |   |
| <p><b>Power Supply</b><br/>18Vac, 2000mA</p> <p>90*68*56mm</p> |  |

# TST9900S4



## Receiver :

|                     |                                    |
|---------------------|------------------------------------|
| Operating Frequency | 8.2MHz                             |
| Operating voltage   | 18Vac                              |
| Operating current   | < 450mA±10%                        |
| Fuse                | 1A, 250V,slow blow                 |
| Operating frequency | 7.5 ~ 8.2MHz                       |
| Detection rate      | ≥ 2m/s                             |
| Power Supply        |                                    |
| Input voltage       | 100-120Vac or 200-240Vac @ 50–60Hz |
| Output voltage      | 18VAC, 2000mA                      |

## Environment:

|                       |                          |
|-----------------------|--------------------------|
| Relative Humidity     | 0 to 85% non- condensing |
| Operating Temperature | 0° to 50° C              |

**Sensitivity debugging:**

Sensitivity Control VR1 adjusts the signal level of the detected RF that is received by the antenna. VR1 is normally in the full CW position. This is the maximum gain setting. If there is a high noise environment, VR1 could be adjusted CCW to lower the system gain, thus reducing the overall noise level. Be aware that reducing the gain using VR1 will also reduce the detection range.

**Sensitivity Tuning:**

Turn VR1 clockwise to increase sensitivity

Turn VR1 anti-clockwise to decrease sensitivity

If DS1 DS2 DS3 do not lit up, this means perfect condition (no noise).

If only DS1 lit up, the condition is good.

When DS2 and DS3 lit up, there is high interference, must resolve and reduce sensitivity until

Keep only DS1 blink to ensure normal operation.

**Auto Resonance Control and frequency selection:**

jumper A is Auto Resonance Control, Plug in 2—3 the work in the Auto Resonance Control, which can automatically lock lever interference frequency, to prevent false positives. F is the frequency selection jumper, Plug in 2—3 the work in narrowband, Plug in 1—2 the work in broadband.

**The alarm sound frequency and time selection:**

DIP switch SW1 RATE frequency selection for the alarm sound, the device has two different alarm sound frequency, the user can choose according to their preferences alarm sound, TIME Select the length of the alarm sound, 3 and 5 second

**Alarm sound intensity debugging:**

The Volume Control VR2 is used to adjust the volume level of the alarm sounder. VR2 is normally in the full CW position. This is the maximum volume setting. If the volume has to be reduced in a particular store environment, VR2 can be adjusted CCW until the desired volume is reached.

**No Synchronizing**

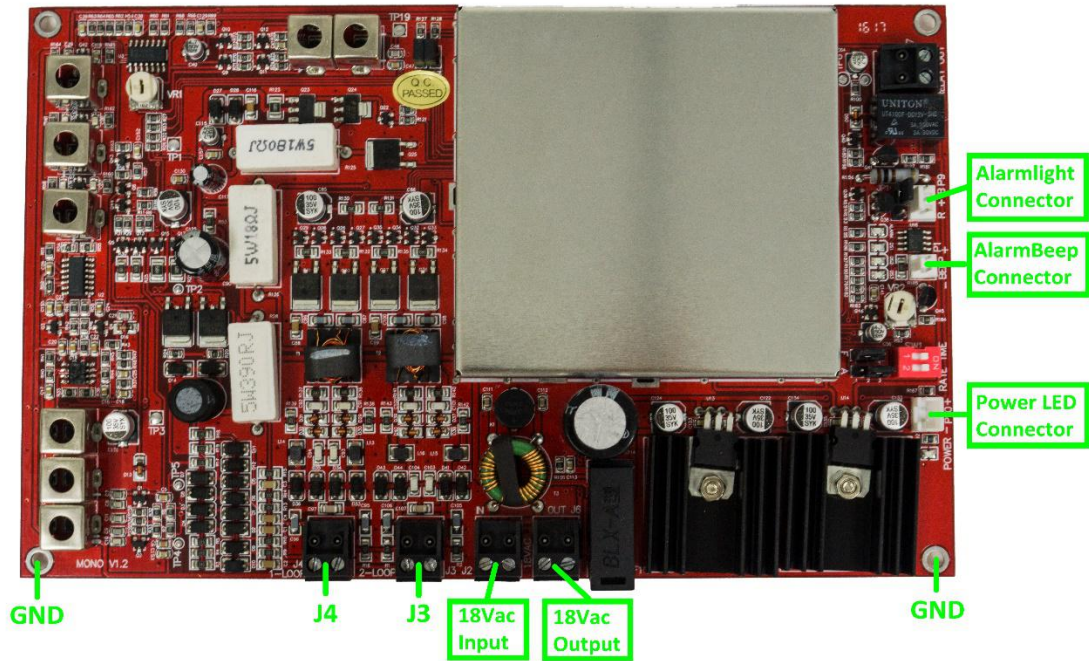
**No interconnecting cable required.**

**Improves overall appearance.**

**Reduces installation time.**



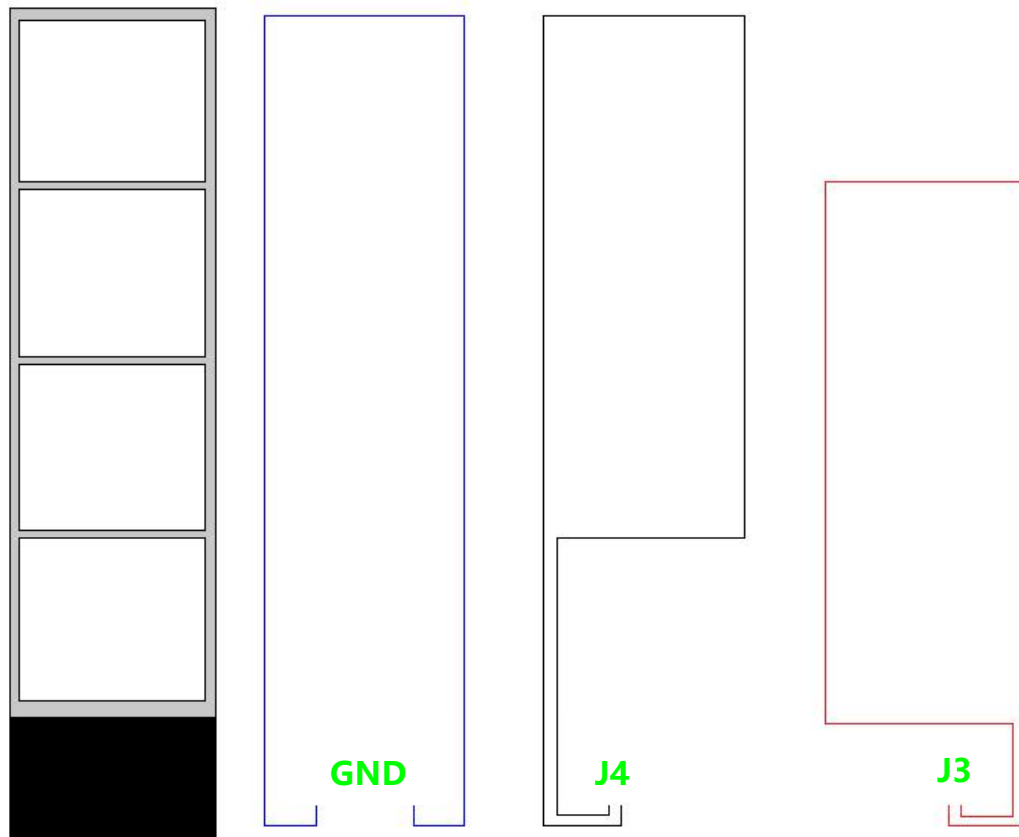
# Assembly



# Wiring diagram

## Standard mode

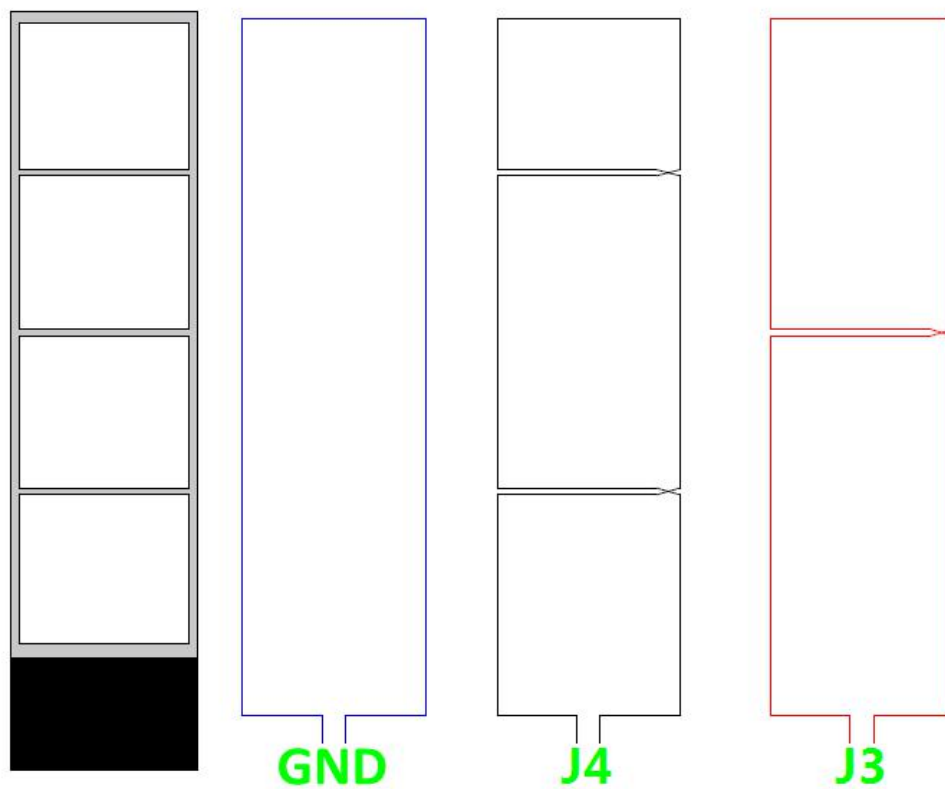
Equipped with a balanced detection capability, but anti-noise ability is weak.



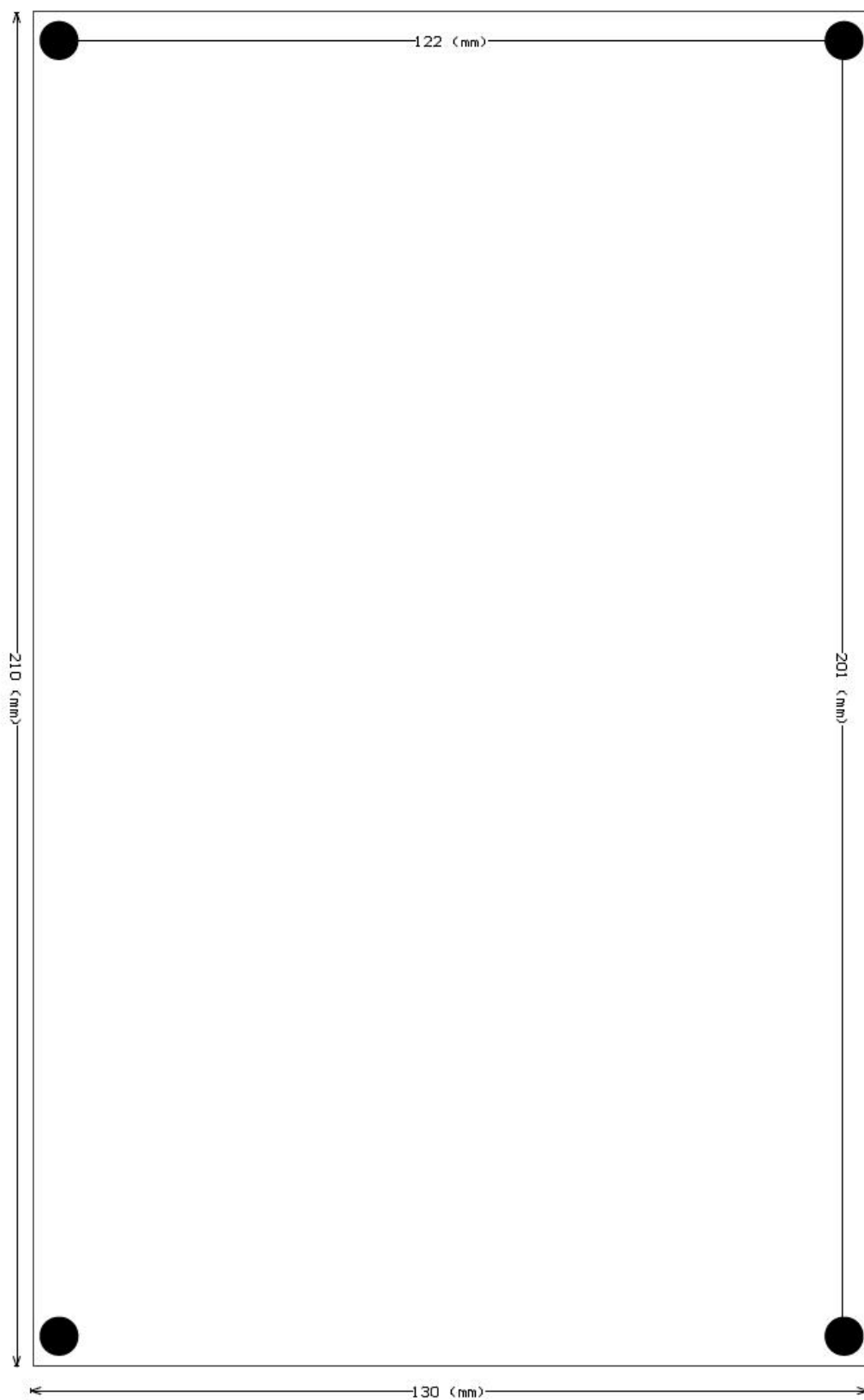


## Anti-noise mode

It can improve noise immunity, but will reduce the detection distance.



## Specifications



**FCC Statement:**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.