

MAXI-TRONIC

3530 IRWIN SIMPSON ROAD • MASON, OHIO 45040

BASIC-4 CONTROL

OPERATION

The **BASIC-4 Control** is a system used to interface with **most any type of switching contact** type sensor. This system can be used with Maxi-Tronic Temperature Switch Belt-Mis-alignment and Flat Pack Series temperature sensors.

The Basic-4 Unit allows for the use of most types of **N/O** and or **N/C** sensors in conjunction with PLC and full computer systems.

Sensor voltage can be limited to **12VDC**.

Each of the sensor inputs are wired directly to the Basic-4 Unit (Fig. 1). Each sensor then controls the **OFF** and **ON** action of a SPDT relay. Contacts are rated @ 3 amp-117VAC/ 2 amp-24VDC. When the sensor is connected and the temperature is below its **TURN ON** point, the **Green L.E.D.** indicator will light and the relay will be closed.

When the temperature surpasses the **TURN ON** point, the **Red L.E.D.** indicator will turn **ON** and the **Green L.E.D.** will turn **OFF**. The output relay will switch positions.

When the sensor temperature drops below its **TURN ON** point, the following occurs:

- **Red L.E.D. will turn OFF**
- **Green L.E.D. will turn ON**
- **RELAY** will switch positions.

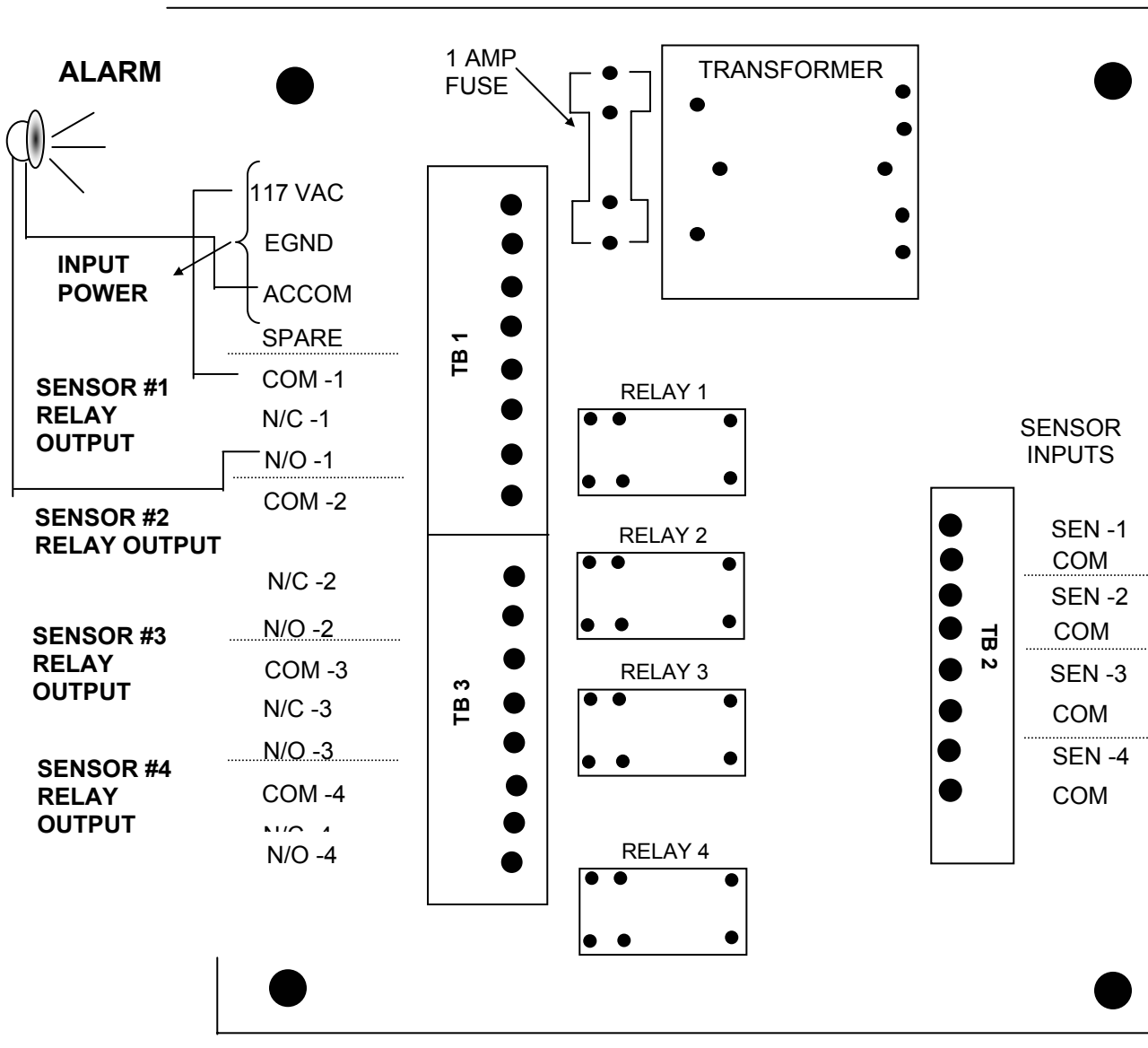
If sensor should get damaged or wire leads to sensor should OPEN, **Red L.E.D.** will turn **ON** and the output relay will switch to the **OPEN** position.

WIRING DIAGRAMS

Figure 1

High Voltage Inputs and Relay Outputs are located on TB1 and TB3.

Sensor Switch Inputs are located on TB2.



OPTIONS

An optional remote status display can be mounted in the existing control panels or NEMA 3-4-12 housings. The display can be mounted up to 50 feet from CPU board using a display cable. User can specify length of cable. Different PCB input voltages are available. Contact Maxi-Tronic for options.

When using one 117V external alarm, jumper relay contact outputs N/O together.

SPECIFICATIONS

- Sensor Voltage – 12 volts @ 200MA Maximum
- Sensor lead runs up to 5000 feet using 16 AWG wire
- Sensor lead runs up to 500 feet using 22 AWG wire
- P.C. Board Input Voltage – 117 VAC @ 2 AMPS 60 Hz.
- Relays rated at 3 AMPS @ 117/250 VAC / 2 AMP-24 VDC Dry contact (No voltage)
- Relays work in FAIL SAFE operation (Normal Operation-Relayed Energized)
- Center to Center on Mounting Holes – 6.25” x 4.25”
- P.C. Board Size – 5.25”width x 7.2” length x 1.5” height

MAXI-TRONIC
3530 Irwin-Simpson Road
Mason, OH 45040
800.659.8250 Fax: 513.398.2536
www.maxitronic.com