

## General

This operation and installation manual provides general guidelines and suggestions to assist you in using the SonaComp, Inc. SonaSwitch® MINI-S ultra-sonic sensor module in many measurement applications.

## General Installation Procedures

1. Always mount the SonaSwitch® MINI-S in a suitable dry location. The SonaSwitch® MINI-S is designed to be used in an indoor or protected environment only. The SonaSwitch® MINI-S E is suitable for harsher environments and higher humidity conditions. Excessive moisture on the sensor will result in damage and improper operation, and will void all warranties.
2. Mount the SonaSwitch® MINI-S as far off the ground as practical.
3. Mount the SonaSwitch® MINI-S in a location where environmental interference sources are minimized (examples are EMI sources, air nozzles, excessive air turbulence, etc.).
4. Mount the SonaSwitch® MINI-S in a 1.575 inch diameter hole, using RTV silicone or edge clips to secure the sensor in place. You can also use our enclosure P/N# 619395, to house the SonaSwitch® MINI-S.
5. As supplied, the SonaSwitch® MINI-S should not need any adjustment as it has been calibrated at the factory.
6. The two (2) NPN open collector digital outputs need to be "pulled up" (through a resistance and/or impedance) to an external positive power source of less than 40 VDC. (Typically 4700 ohms when connected to an external +5 VDC power source for testing or for interfacing to TTL Logic level circuits). The maximum output current is 600 mA. The Range Set LEDs do not require pull-up resistors, and can be used for setup calibration before connecting the SonaSwitch® MINI-S to external equipment.

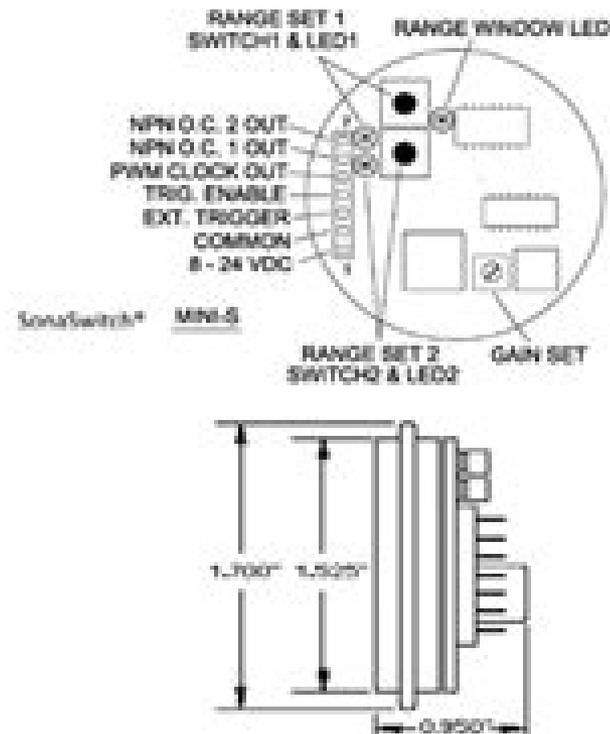
## System Wiring Information

- Pin 1 – Power Supply – A +8 to +24 VDC regulated power source supplying 30 mA of current (2.0 Amperes during the 0.5 ms transmit pulse).
- Pin 2 – Power Supply Common (Ground) – Common Return for DC power supply, switched outputs, and clock signals.
- Pin 3 – External Trigger – Accepts TTL compatible logic level clock signals. A low to high (zero to +5 VDC) transition triggers the SonaSwitch® MINI-S.
- Pin 4 – Trigger Enable – Allows the SonaSwitch® MINI-S to accept an external trigger signal. Enabled by connecting this pin (pin 4) to common (pin 2).
- Pin 5 – ECHO (PWM) Output – Delivers a TTL compatible Pulse Width Modulated (PWM) clock signal. This signal goes high at the start of a cycle, and returns to a low state when the returning echo is received.
- Pin 6 – NPN Output 1 – This NPN open collector output turns on and off when a target is detected (on) or missing (off) as set by the Range Set 1 push button.
- Pin 7 – NPN Output 2 – This NPN open collector output turns on and off when a target is detected (on) or missing (off) as set by the Range Set 2 push button.

## Calibration Procedures

1. Apply DC power (+8 to +24 VDC) to the SonaSwitch® MINI-S (connector header pins 1 and 2).
2. Allow five to ten minutes warm-up time for the SonaSwitch® MINI-S to reach operating temperature before calibrating the unit.
3. If desired for testing, connect the two NPN Open Collector Outputs to an external positive power supply through appropriate impedances. Since they are open collector, they will always read zero volts until connected to a pull-up load.

(See General Installation Procedures – Step 6).



## 4. NPN Output 1 Adjustment (pin 6)

- Place the target at the desired detection distance from the face of the SonaSwitch® MINI-S.
- Depress and hold the "Range Set 1" push button switch. Wait for the "Range Window" LED to flash three times, followed by a "chirp" sound from the sensor before releasing.
- The NPN output 1 should now be set:
  - LED 1 ON – NPN output is a Logic Low (0 VDC) when target is detected.
  - LED 1 OFF – NPN output is a

# Mini S Radio Manual

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