

Series 600 and 7000 Single OEM Kits

SensComp's Series 600 and Series 7000 OEM Kits provide the ultrasonic sensors and drive electronics for prototype development using our popular Series 600 or Series 7000 Electrostatic Ultrasonic sensors

Features

Accurate Sonar Ranging from 6 inches to 35 feet
Drives a 50 KHz Electrostatic Ultrasonic Sensor without an Additional Interface
Operates from a Single Power Supply Source
Accurate Clock Output Provided for External Use
Selective Echo Exclusion
TTL Compatible
Multiple Measurement Capability
Integrated Ultrasonic Sensor Cable
Variable Gain Control Potentiometer

Part No.

*PID# 606782SLF – Series 600 Environmental Grade OEM Kit
*PID# 606783SLF – Series 600 Instrument Grade OEM Kit
*PID# 606785SLF – Series 7000 OEM Kit

*RoHS Compliant

Kit Contents

1 - Electrostatic Ultrasonic Sensors (Series 600 or 7000)
1 – **SMT 6500 Ranging Modules
1 – Ribbon Cable
2 – Female Terminal Clips

Specifications

Distance Range:0.15 to 10.7 M
(0.5 to 35 Ft)

Power Required: (Each module)

Voltage 4.5 to 6.8 VDC
(+5 VDC nominal)

Current 100 mA

Outputs:

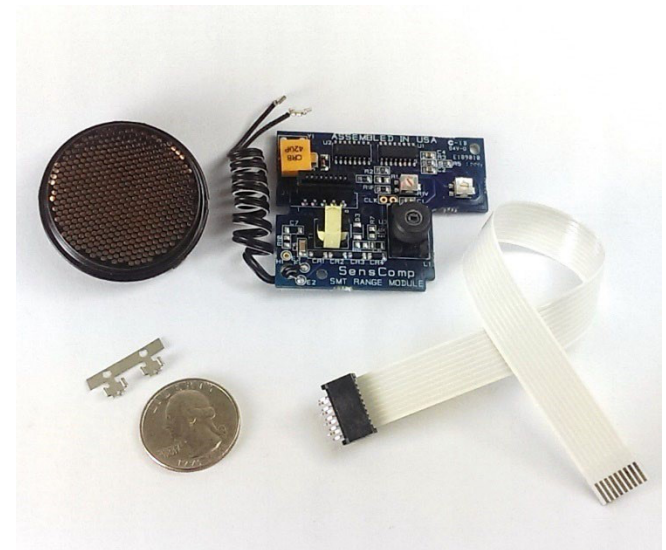
TTL Open collector outputs require a pull up resistor to Vcc (typically 4.7K Ω to Vcc = +5V)

Notes:

[1] Lines which may occasionally appear in foil have no effect on product functionality or performance.

[2] Variations in die depth may result in minor variations of tolerances.

**** Ultrasonic Ranging System Manual - download instructions included with purchase.**



606783SLF shown



Description

The **OEM Kit** is a great building block for prototypes. It contains all of the front-end drive electronics necessary to create a ranging system.

Included in the package is one Electrostatic Ultrasonic sensor: either Series 600 (Instrument Grade or Environmental Grade) or Series 7000. Also included are one SMT 6500 Ranging Module, wire, connectors and technical information.

The output from the kit is a TTL level signal going from low to high when an echo is received. To get distance information, the user measures the elapsed time between the start of transmit signal and the echo received signal. Knowing the speed of sound in air, this time measurement can be converted into a distance measurement.

For a complete ranging system, in addition to the 6500 sonar ranging module, the user must supply the electronics to perform the input triggering, the trigger-to-echo time measurement, and the display functions for the system.

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