



SensComp, Inc.
36704 Commerce Rd.
Livonia, MI 48150 USA
Telephone: (734) 953-4783
Fax: (734) 953-4518
www.senscomp.com

Series 9000 OEM Kit

SensComp's Series 9000 OEM Kit provides the Ultrasonic Sensors and drive electronics for prototype development using our popular Series 9000 Piezoelectric Ultrasonic Sensor.

Features

- Accurate Sonar Ranging from 12 inches to 18 feet
- Drives a 45 kHz Series 9000 Piezoelectric 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# 606790 – Series 9000 OEM Kit

Kit Contents

- 2 – Series 9000 Piezoelectric Ultrasonic Sensors
- 2 – SMT Series 9000 Ranging Modules
- 1 – Ultrasonic Ranging System Manual
- 1 – Application Notes/Technical Papers

Specifications

Distance Range (9000):.....0.3 to 5.5 M
(1.0 to 18 Ft)
Distance range measurement performed using a 4 foot by 4 foot flat target

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 Ohms to Vcc=+5V)



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 are two Series 9000 Piezoelectric Ultrasonic Sensors, as well as two SMT Series 9000 Ranging Modules, wires, 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 SMT Series 9000 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.

SENSCOMP PRODUCT SPECIFICATION SHEET DISCLAIMER NOTICE

SensComp, Inc. ("SensComp") reserves the right to make corrections, enhancements, improvements and other changes to its products, specification sheets and data, and to discontinue any product, without further notice. Buyer should obtain the latest relevant information before placing an order and should verify that such information is current and complete. All products are sold subject to SensComp's terms and conditions of sale in effect at the time of order acknowledgment.

SensComp disclaims any and all liability for any errors, inaccuracies or incompleteness contained in any specification sheet or in any other disclosure relating to any product. Information contained herein is strictly for reference and subject to change without notice. SensComp is not liable for any damages that the reader or any third person might suffer as a result of the reader ignoring this warning.

SensComp makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose. SensComp disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for a particular purpose, non-infringement and merchantability.

SensComp assumes no liability for applications assistance or the design of Buyer's products. Buyer is responsible to validate its products, designs and applications using SensComp's products or components. To minimize the risks associated with Buyer's products and applications, Buyer should provide adequate design and operation safeguards.

SensComp products are not authorized for use in aircraft, aviation, nuclear, medical or safety-critical applications including, but not limited to, life support, where a failure of the SensComp product would reasonably be expected to cause severe personal injury or death.