

# 600 Series Smart Sensor

600 Series Smart Sensor simplifies product design and packaging.

## Features

- 50 KHz Electrostatic Transducer
- Integrated SMT Drive Electronics
- TTL Compatible
- Convenient Pin Terminal Connection
- Monostable and Astable Modes of Operation
- Voltage Regulated
- Beam Angle of 15° at -6 dB
- Low Ring Characteristics
- Ranges from 6" to 35'
- Excellent Receive Sensitivity
- Available with all 600 Series Transducers
- Specifically intended for operation in air at ultrasonic frequencies

## Part No.

- PID# 615088 – Series 600 Instrument Grade Smart Sensor
- PID# 615089 – Series 600 Environmental Grade Smart Sensor
- PID# 615090 – Series 600 Open Face Smart Sensor

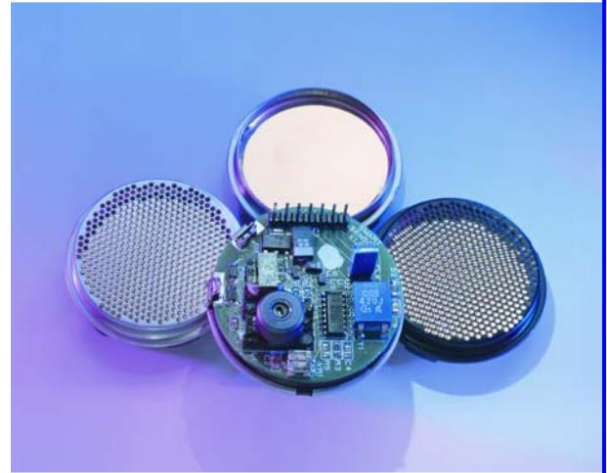
## Benefits

- Self Contained Compact Design
- Easy to Interface with Minimum of External Components
- Can be Triggered Internally or Externally
- Will Operate on a Power Source from 6 to 24 VDC

## Applications

Level Measurement, Proximity Detection, Presence Detection, Robotics, Educational Products

## Specifications



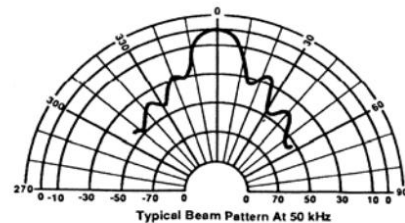
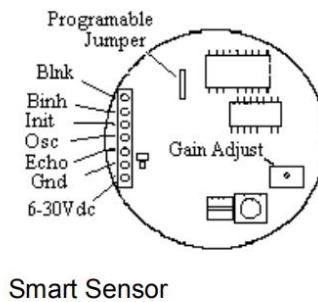
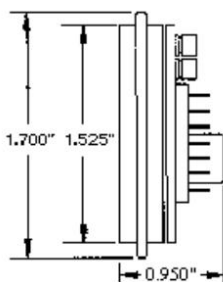
## Description

The new SensComp Smart Sensor is based on the ultra-sensitive 600 series electrostatic transducer line with an enhanced version of our 6500 ranging module on board. The new voltage regulated circuitry allows the sensor to operate from a 6 to 24 VDC power source.

The TTL compatible open collector outputs include pull-up resistors. Configuration of the new oscillator circuit enables the unit to be externally triggered or continually sense at 5 Hz.

The digitally controlled gain and variable bandwidth amplifier minimizes noise and side lobe detection in sonar applications. The typical absolute accuracy is  $\pm 1\%$  of the reading over the entire range.

This new compact integrated design of SensComp's 600 Series Smart Sensor will expedite the product development process



Note: dB normalized to on-axis response.  
Note: Curves are representative only. Individual responses may differ.

Beam Pattern