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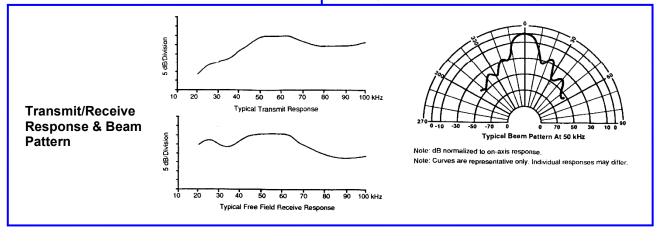
# Series 600 Instrument Grade Transducer SensComp's Series 600 Instrument Grade Electrostatic Ultrasonic Sensor is specifically intended for operation in air at ultrasonic frequencies. The assembly comes complete with a perforated protective cover. **Specifications** Features 50 kHz Electrostatic Ultrasonic Sensor Beam Angle of 15° at -6 dB Ranges from 6" to 35' **Excellent Receive Sensitivity** Integral Perforated Protective Cover. Specifically Intended for Operation in Air at Ultrasonic Frequencies Part No. \*PID# 604142 - Series 600 Instrument Grade Ultrasonic Sensor \*RoHS Compliant REACH RoHS **Benefits Description**

Able to Range from 6" to 35' Excellent Receive Sensitivity

### Applications

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

The Series 600 ultra-sensitive ultrasonic sensors feature ranging capability from 2.5 cm to 15.2 m when used with SensComp drive electronics. They are ideally suited for demanding applications where the most sensitivity possible is the highest priority. These ultrasonic sensors are among the best available when detecting soft targets. They have a broad band frequency response.



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## Series 600 Instrument Grade Specifications

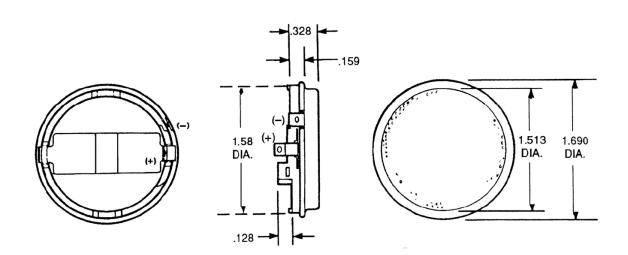
Usable Frequency Range	
Transmitting	See Graph
Receiving	See Graph
Beam Pattern	See Graph
Typical: 15° at -6dB	
Transmitting Sensitivity	110 dB min
at 50.0 kHz; 0dB re 20 µPa at 1 me	ter
(300 VAC <sub>PP</sub> ; 150 VDC bias)	
Receiving Sensitivity	42 dB min
at 50.0 kHz; 0dB = 1 volt/ Pa	
(150 VDC bias)	
Distance Range	0.15 to 10.7 M
	(0.5 to 35 feet)
Resolution (± 1% over entire range)	± 3mm to 3m
	(± 0.12 to 10 ft)
Weight	8.2 gm (0.29 oz)

Suggested DC Bias Voltage	200V
Suggested AC Driving Voltage	200V peak
Combined Voltage	400V max
Capacitance at 1 kHz (typical)	400–500 pf
(at 150 VDC bias)	
Operating Temperature	
	(-40 to 185° F)
Relative Humidity (non-condensing)	5% - 95%
Dimension	
Thickness	0.46 inch
Diameter	1.69 inch
Standard Finish	
Foil	Gold
Housing	Satin Black Painted 304 Stainless Steel

#### 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.



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