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600 Series Instrument Transducer

SensComp's Series 600 Instrument Grade electrostatic transducer is specifically intended for operation in air at ultrasonic frequencies. The assembly comes complete with a perforated protective cover.

Features

- 50 kHz Electrostatic Transducer
- Beam Angle of 15° at -6 dB
- Ranges from 6" to 35'
- Excellent Receive Sensitivity
- Perforated Protective Cover.
- Specifically Intended for Operation in Air at Ultrasonic Frequencies

Part No.

PID# 604142 – Series 600 Instrument Grade Transducer

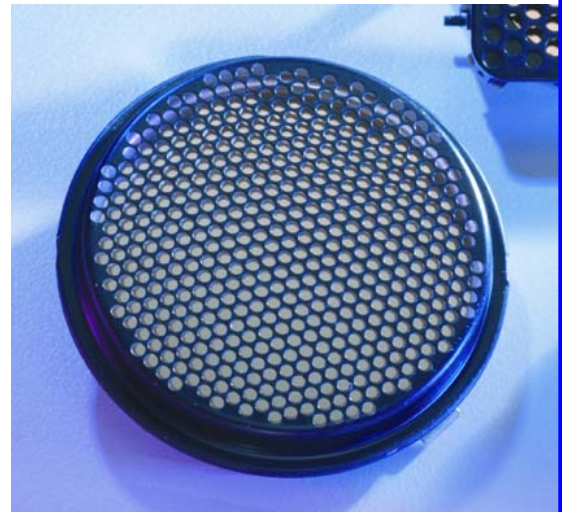
Benefits

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

Applications

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

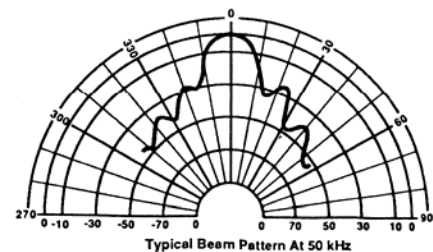
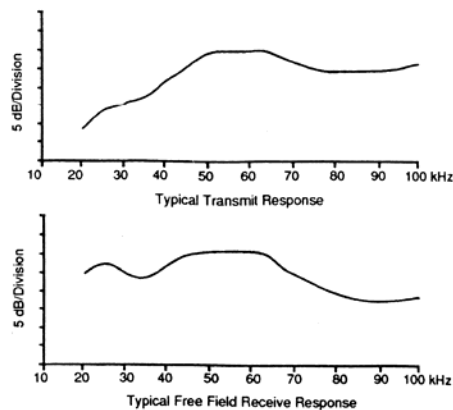
Specifications



Description

The Series 600 ultra sensitive transducers 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 transducers are among the best available when detecting soft targets. They have a broad band frequency response.

Transmit/Receive Response & Beam Pattern



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

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 meter
(300 VAC_{PP}; 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 -30 to +70° C
(-20 to 160° F)

Relative Humidity (non condensing) 5% - 95%

Dimension

Thickness 0.46 inch

Diameter 1.69 inch

Standard Finish

Foil Gold

Housing Flat Black

Cold Rolled

Steel

Specifications subject to change without notice

