

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

Series 7000 Transducer

SensComp's Series 7000 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 17° at -3 dB

Ranges from 6" to 35'

Excellent Receive Sensitivity

Perforated Plastic Protective Cover.

Specifically Intended for Operation in Air at Ultrasonic

Frequencies

Part No.

PID# 612366 – Series 7000 Electrostatic Transducer (with electrical connecting clips) PID# 614565 – Series 7000 Electrostatic Transducer

(without electrical connecting clips)

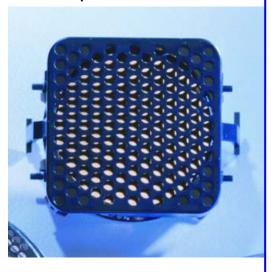
Benefits

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

Applications

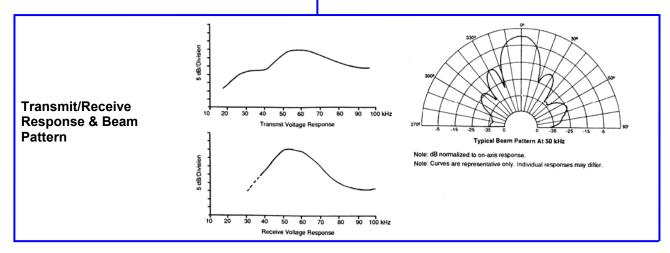
Level Measurement, Proximity Detection, Presence Detection, Robotics, Educational Products

Specifications



Description

The Series 7000 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 or small targets.



For more information, visit our website: www.senscomp.com

Series 7000--- page 2

Series 7000 Specifications

Usable Frequency Range	
Transmitting	See Graph
Receiving	See Graph
Beam Pattern	See Graph
Typical: 17° at -3dB	
Transmitting Sensitivity	106.9 dB min
at 50.0 kHz; 0dB re 20 µPa at 1 meter	
(300 VAC _{PP} ; 150 VDC bias)	
Receiving Sensitivity	43.4 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	4.7 gm (0.15 oz)

Suggested DC Bias Voltage	. 200V peak . 400V max
Operating Temperature	0 to +60° C
oporating remperature	(32 to 140° F)
Relative Humidity (non condensing)	` ,
Dimension	
Thickness	. 0.41 inch
Square Size	. 1.13 inch
Standard Finish	
Foil	. Gold
Housing	. Flat Black Plastic

Specifications subject to change without notice

