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Series 7000 Ultrasonic Sensor

SensComp's Series 7000 Electrostatic Ultrasonic sensor is specifically intended for operation in air at ultrasonic frequencies. The assembly comes complete with a perforated protective cover.

Features

50 KHz Electrostatic Ultrasonic sensor
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 Ultrasonic sensor (with electrical connecting clips) *PID# 614565 – Series 7000 Ultrasonic sensor (without electrical connecting clips) *RoHS Compliant

Benefits

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

Applications

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

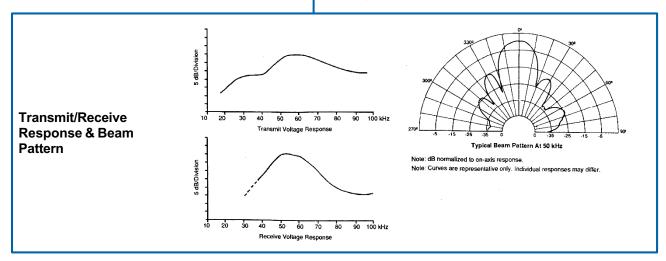
Specifications

SensComp, Inc.



Description

The Series 7000 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 or small targets.



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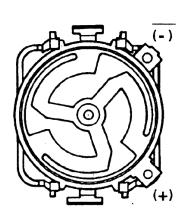
Series 7000 Specifications

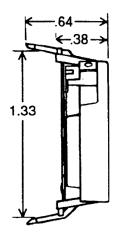
Usable Frequency Range	
Transmitting	See Graph
Receiving	See Graph
Beam Pattern	See Graph
Typical: 17° at -3dB	
Transmitting Sensitivity	106.9 dB min
at 50.0 kHz; 0dB re 20 µPa at 1 meter	
(300 VAC _{PP} ; 150 VDC bias)	
Receiving Sensitivity	43.4 dB min
at 50.0 kHz; 0dB = 1 volt/Pa	
(150 VDC bias)	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

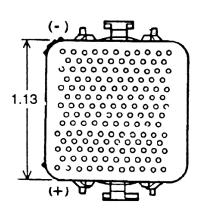
Suggested DC Bias Voltage Suggested AC Driving Voltage Combined Voltage	200V peak
Capacitance at 1 kHz (typical)	600-700 pf
(at 150 VDC bias)	
Operating Temperature	40 to +85° C
	(-40 to 185° F)
Relative Humidity (non condensing)	5% - 95%
Dimension	
Thickness	0.41 inch
Square Size	1.13 inch
Standard Finish	
Foil	Gold
Housing	Flat Black
-	Plastic

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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