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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.

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

Benefits

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

Applications

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

Specifications

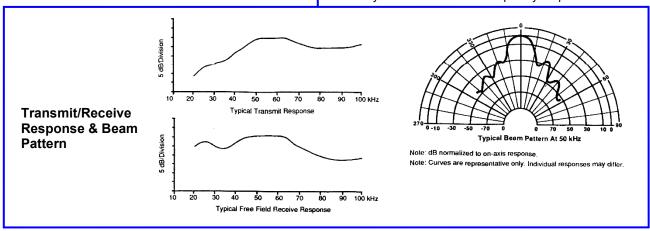






Description

The Series 600 ultra-sensitive 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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Rev 2022-10-01

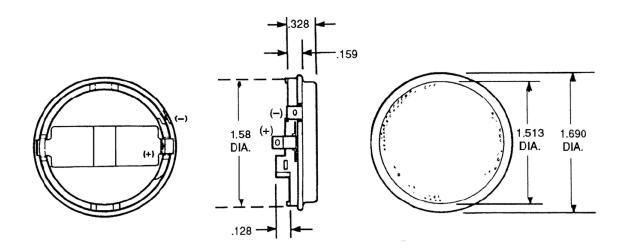
Series 600 Instrument Grade Specifications

Usable Frequency Range Transmitting Receiving	•	Suggeste Suggeste Combine
Beam Pattern		Capacita
Typical: 15° at -6dB	occ Graph	(at 1
Transmitting Sensitivity	110 dB min	Operatin
at 50.0 kHz; 0dB re 20 µPa at 1 m	neter	-
(300 VAC _{PP} ; 150 VDC bias)		Relative
Receiving Sensitivity	42 dB min	Dimension
at 50.0 kHz; 0dB = 1 volt/ Pa		Thic
(150 VDC bias)		Diam
Distance Range	0.15 to 10.7 M	Standard
-	(0.5 to 35 feet)	Foil
Resolution (± 1% over entire range)	± 3mm to 3m	Hous
	(± 0.12 to 10 ft)	
Weight	8.2 gm (0.29 oz)	

Suggested DC Bias Voltage2	200V
Suggested AC Driving Voltage 2	200V peak
Combined Voltage 4	100V max
Capacitance at 1 kHz (typical)4	100–500 pf
(at 150 VDC bias)	
Operating Temperature (40 to +85° C -40 to 185° F)
Relative Humidity (non-condensing) 5	5% - 95%
Dimension	
Thickness).46 inch
Diameter 1	I.69 inch
Standard Finish	
Foil	Gold
	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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