Ultrasonic Sensor

Applications
Applications include Burglar Alarms, Distance Measurement, Range Finders, Remote Controllers & Robotics, etc.

Features
• High reliability
• Compact and light weight
• Open structure and dual use (Transmitter & Receiver)
• High sensitivity and sound pressure
• Less power consumption

Technical Terms
Construction : Open Structure
Using Method : Dual Use (Transmitter & Receiver)
Frequency : 40 ±1kHz
Sound Pressure Level : min. 110dB (10V/30cm)
Sensitivity : min.-65dB/V/µbar
Capacitance : 2500pF ±25% @ 1kHz
Directivity : 50°
Operating Temperature Range : -40°C to +85°C
Storage Temperature Range : -40°C to +85°C
Detectable Range : 0.7 to 18m
Maximum Input Voltage : 60Vp-p
Housing Material : Aluminium

Diagram

Dimensions : Millimetres
Tolerance : ±0.5

www.element14.com
www.farnell.com
www.newark.com
Ultrasonic Sensor

Beam Pattern:

Test Circuit:

<table>
<thead>
<tr>
<th>OSC</th>
<th>U.S</th>
<th>S.C.M</th>
<th>30cm</th>
<th>Amp</th>
<th>Voltmeter</th>
</tr>
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Anechoic Room

Beam Pattern:

Test Circuit:

Part Number Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrasonic Sensor, Transceiver, 16mm Dia, 40kHz, -65dB, Aluminium, Silver, -40°C to 85°C</td>
<td>MCUSD16A40S12RO</td>
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</tbody>
</table>

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