



广州市番禺奥迪威电子有限公司

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SPECIFICATION FOR APPROVAL

CUSTOMER _____

AUDIOWELL P/N TS601-01 CUST P/N _____

DESCRIPTION ULTRASONIC RANGE FINDER

DATE 2009-5-6 NUMBER _____

<p>THE ULTRASONIC EYES RANGE FINDER</p> <p>1. INTRODUCE 2. FEATURES 3. ELECTRICAL SPECIFICATIONS 4. DIMENSIONS 5. CONNECTIONS 6. WORKING MODE</p>			
<p>CUSTOMER APPROVAL</p>	<p>APPD.</p>	<p>COMPANY CHOP</p>	
<p>DRAWING</p>	<p>DWN.</p>	<p>CHECK.</p>	<p>APPD.</p>

PLEASE SENT ONE OF THE SAME TWO BACK

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Ultrasonic Electronic Eye Telemeter Module

1. Introduction

Through the technology of non-contacted ultrasonic measurement, TS601P01 ultrasonic electric telemeter module can measure a distance within 0.03-3M effectively. And transform the data into impulse with different width. By employing ultrasonic intelligence software processing technology, the reliability of measurement are improved, as well as the capability of anti-jamming.

2. Characteristics of product

High sensitivity

Narrow fade zone

Quick response

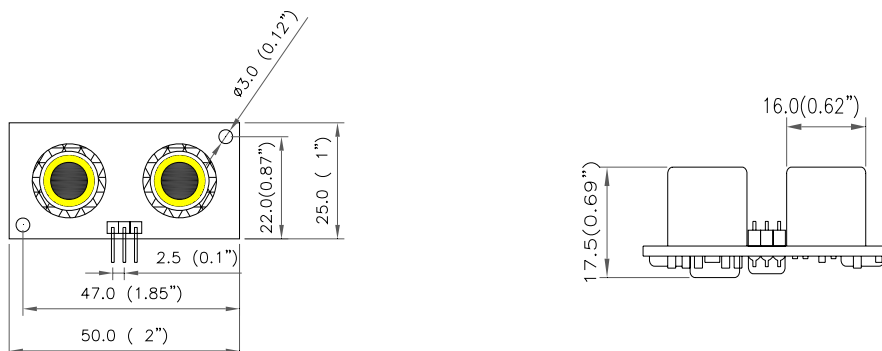
Intelligence processing technology for Ultrasonic

3. Specification

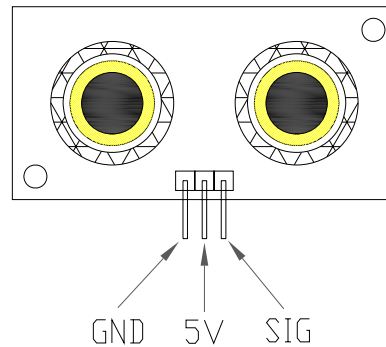
Principle of measurement	Ultrasonic detect
Typical application	Distance measurement
Range of measurement	0.03~3 M
Precision of measurement	±2CM
Mean of output	Impulse width
Rated working voltage	5 VDC
Working current	≤15 mA*
Frequency of sensor	40 KHz
Continual response time	5ms
Working temperature	0 °C ~ 70 °C
Ralitive moisture	≤85%
Atmosphere pressure	86~106 Kpa

* Working current is measured when 5VDC power add to the module but no trigger

4. Appearance and dimensions Unit: mm

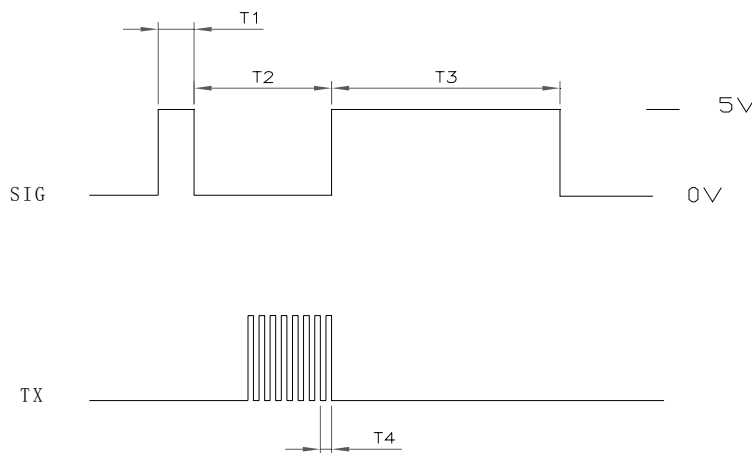


5. Electric connection



6. Principle of operation

The host offers the TS601 module with a impulse through SIG, the trailing edge springs, and transmits a string of ultrasonic signal of 40KHz when the module receives it. Then the electrical level of SIG stitch will be risen. The duration of high level T3 will be ensured by the distance between the object and the telemeter. After 19.5ms, the high level descends, when no object is in a distance of 3M. The host computes the distance though the impulse width input by the electronic eye module: $S=(V*T3)/2$.



- T1 (Trigger): >5μs
- T2 (Postpone): 200μs
- T3 (Pulse width): 0-19.5ms
- T4 (Cycle) : 25μs



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7. TEST REPORTS

test data num	sensitivity
	>220cm