

DYP-ME007Y-PWM module provides ultrasonic 30cm-3m of non-contact distance measurement, the sensor senses an object is within the range corresponding to the high output pulse signal.

- Features

 - Small, easy to use
 - low voltage, low power consumption
 - Wide measurement range
 - high accuracy
 - the small blind
 - waterproof

- Application

 - Apply waterproof ranging occasions;
 - measuring the distance between objects:
 - Programmable car obstacle avoidance:
 - robot obstacle avoidance:
 - teaching apparatus;
 - security, industrial contro

Product physical map:



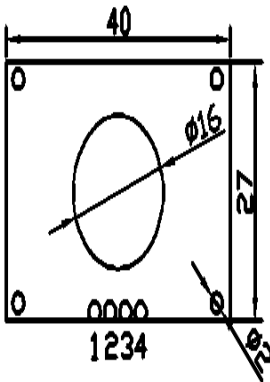
Pin Define

- 1:GND

2:ECHO/TX

3:TRIG/RX

4:VCC

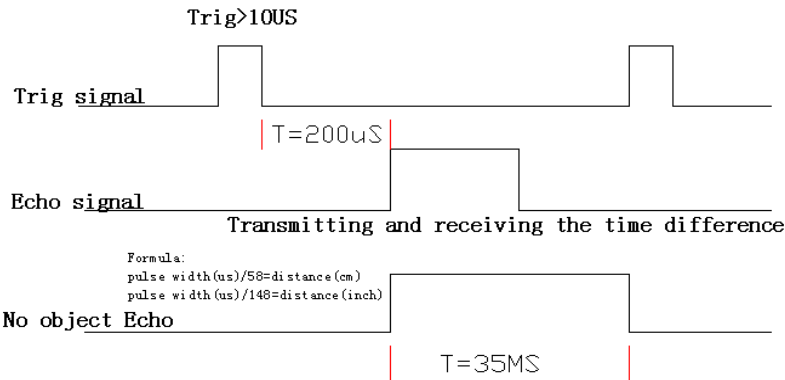


Electrical parameters

TYPE	DYP-ME007Y-PWM
Operating voltage	DC 5V
Operating current	Less than 15mA
frequency	40KHz
Max distance	3.5m
Min distance	30cm
Output pin	2. ECHO/TX

Output signal	5V TTL level
Response time	100MS
accuracy	1cm
drectivity	Less than 50
Operating Temperature	-10-60°C
Storage Temperature	-20-80°C
size	40mm*27mm

Sequence chart



Description:
After power on, the module waiting for the trigger signal. Triggered automatically issued within 8 40kHz cycle level, and to detect the long echo time, and through the corresponding timer output level TTL level PWM pulse width. According to the object at different distances, a corresponding proportion of the output pulse width. MCU can be used to determine the timing of pulses calculated distance. Formula: $\mu S/5.8 = mm$, or $\mu S/148 = inches$. If the object is not detected, the module output pin will output a constant pulse width of about 35MS.

Note: The module detects a minimum distance of 30cm, 30cm inside the object, the signal will be inaccurate.