Ultrasonic distance sensors

Long-Range Waterproof Ultrasonic Sensor, UART, PWM or Switch

Model ME007-ULS-V1.4

Long-range waterproof ultrasonic sensor with a horn housing, 27-800 cm range, 0–27 cm blind zone and three output modes (UART, PWM, switch) on a 3.3V~12V supply.



Range	Accuracy
27–800 cm	±(1+S*0.5%) cm
Output	**Frequency**
PWM	40K±1.0K Hz

Features

- Closed transceiver probe with horn housing
- Beam angle ≈65° at 100cm, ≈15° at 300cm
- Average current <5 mA
- Operating temperature -15–60 °C
- Compensated UART version, ±(1+S*0.3%) cm

Specifications

PWM output	
Operating voltage	3.3V~12V
Average operating current	<5 mA
Blind zone	0–27 cm
Planar object measuring range	27–800 cm
Output	PWM
Working cycle	>60 ms
Accuracy at room temperature	±(1+S*0.5%) cm
Temperature compensation	No compensation
Reference angle at 100cm	≈65 °
Reference angle at 200cm	≈25 °
Reference angle at 300cm	≈15 °

Probe center frequency	40K±1.0K Hz
Temperature output	None
Operating temperature	-15–60 °C

Serial (UART) output

Output	UART
Accuracy at room temperature	±(1+S*0.3%) cm
Temperature compensation	Compensated
Temperature output	Yes

Switch output

Output	Switch
Working cycle	250 ms

Pin definition (from product label)

Pin 1	DC3.3-12V
Pin 2	Trigger
Pin 3	TX/PWM
Pin 4	ON OFFout
Pin 5	GND
Operating voltage	3.3-12 V
Output	UART / PWM / switch output
Measuring range	27-800 cm

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

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