Ultrasonic distance sensors

Dual-Probe Ultrasonic Height-Measurement Module

Model H03-V1.0

Dual-probe ultrasonic ranging module for height measurement, 3-250 cm range with UART controlled output and ±(1 cm + 0.3% of distance) accuracy.



Range	Output
3–250 cm	UART controlled output
Blind zone	**Supply voltage**
0–3 cm	3.3-5 V

Features

- Two probes
- Blind zone 0-3 cm
- Response time 250 ms
- DC 3.3–5 V supply
- Temperature compensated

Applications

Height measurement

Specifications

Input voltage	DC 3.3–5 V
Static current	≤8 mA
Measuring state current	≤10 mA
Power-on time	1 s
Blind zone	0–3 cm
Measuring range, flat object	3–250 cm
Output	UART controlled output
Response time	250 ms
Measuring accuracy	±(1cm+current measuring distance*0.3%)
Temperature compensation	Compensated

Pin definition

Pin 1: VCC	3.3–5V power input pin

Pin 2: TX	UART output pin
Pin 3: RX	UART trigger pin
Pin 4: GND	Power ground pin

Dimensions	
PCB outline length	57.0±0.2 mm
PCB outline width	23.0±0.2 mm
Probe spacing	34.0±0.3 mm
Probe diameter	Ø17.6±0.3 mm
Height	13.0±0.3 mm
Rear view length	52.0±0.1 mm
Rear view width	18.0±0.1 mm
Mounting holes	4-Ø2.2±0.1 mm
Edge offset	1.3±0.5 mm
Board thickness	1.0±0.1 mm
Connector protrusion	4.9±0.5 mm
Operating voltage	3.3-5 V
Measuring range	3-250 cm

Ordering and support

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

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