Ultrasonic distance sensors

Split Waterproof Ultrasonic Module, No Housing

Model A02YY-V2.0

Ultrasonic ranging module with a closed split waterproof probe and no housing, measuring 3cm-450cm with UART, PWM or switch output and ±(1 cm + 0.3% of distance) accuracy.



Range	Accuracy
3cm-450cm	±(1+S* 0.3%)
Output	**Supply voltage**
UART output	DC3.3V-5V

Features

- Closed split waterproof probe, compact design
- Mounting holes on the module board
- Low-power design, 8mA average current
- Temperature compensation
- DC3.3V-5V supply

Applications

Object proximity and presence detection, Parking management, Robot obstacle avoidance, Automatic control

Specifications

Model printed in table	A02-V2.0
Measuring accuracy	±(1+S* 0.3%)
Operating voltage	DC3.3V-5V
Average current	8mA
Temperature compensation	Yes
Measuring range	3cm-450cm
Output	UART output
Output	PWM output
Output	Switching output

Dimensions

Module length (overall PCB)	57.2±0.2 mm
Mounting hole spacing (horizontal)	52.0±0.1 mm

Module height	23.2±0.2 mm
Mounting hole spacing (vertical)	18.0±0.1 mm
Dimension 26.0±0.1 (between transducer centres, as drawn)	26.0±0.1 mm
Dimension 34.0±0.3 (bottom, as drawn)	34.0±0.3 mm
Dimension 11.7±0.2 (bottom right, as drawn)	11.7±0.2 mm
Dimension 11.6±0.2 (right side, as drawn)	11.6±0.2 mm
Transducer top width	18.0±0.2 mm
Transducer inner width	12.5±0.1 mm
Side view dimensions (as drawn)	11.0±0.2 / 9.0±0.2 / 1.0±0.1 / 4.9±0.3 / 4.5±0.3 mm
Operating voltage	DC3.3-5 V
Output	UART / PWM / TTL switch output
Measuring range	3-450 cm

Ordering and support

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

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