Ultrasonic distance sensors

Ultrasonic Distance Sensor with Bracket, 21 to 300 cm

Model A11-V1.0

Ultrasonic distance sensor with UART, PWM and switch outputs, measuring 21-300 cm in one variant and 23-200 cm in another, with temperature compensation and a mounting bracket.



Range	Output
21-300cm	UART/PMW/switch output
Blind zone	**Supply voltage**
21cm	DC3.3-5V

Features

- Blind zone 21cm or 23cm by variant
- Accuracy ±1cm + 0.3% of distance
- Static current 15uA
- DC3.3-5V supply
- HY2.0-4Y terminal wire, 30 cm

Specifications

Planar mode	
Operating voltage	DC3.3-5V
Static current	15uA
Measuring range	21-300cm
Blind zone	21cm
Output	UART/PMW/switch output
Accuracy	±1cm+detection distance*0.3%
Temperature compensation	Yes (temperature compensated)

Human-body mode	
Measuring range	23-200cm
Blind zone	23cm

Wiring	

Wire length	30 cm
Connector	HY2.0-4Y terminal wire

Pin definition

Pin 1 (red)	VCC
Pin 2 (black)	GND
Pin 3 (yellow)	RX
Pin 4 (white)	TX

Dimensions

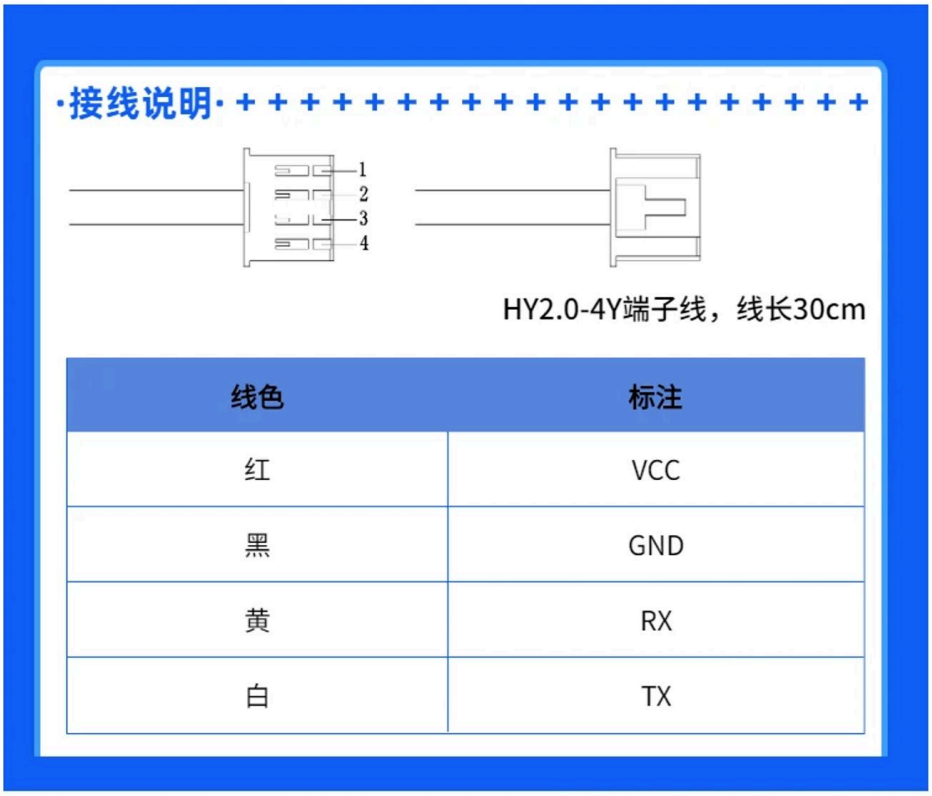
Probe side view	29±0.2 mm
Probe side view	16.5±0.2 mm
Probe side view	14±0.2 mm
Probe side view	8.6±0.2 mm
Cable length	300±20 mm
Probe side view	5.7 mm
Probe top view	23.8±0.2 mm
Probe top view	16.4±0.2 mm
Probe top view	8.6 mm
Bracket side view	27.7±0.2 mm
Bracket side view	24.5±0.2 mm
Bracket side view	25.2±0.2 mm
Bracket width	30±0.2 mm
Bracket length	80±0.2 mm
Bracket front hole diameter	18.8±0.1 mm
Operating voltage	3.3-5 V
Output	UART / PWM / switch output
Measuring range	20-300 cm

Ordering and support

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

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Dimensions and wiring



线色	标注
红	VCC
黑	GND
黄	RX
白	TX

Drawings are for reference. Dimensions in millimetres unless stated.