Ultrasonic distance sensors

Compact Ultrasonic Distance Sensor, 20 to 350 cm, IP67

Model A09-V1.0

Compact ultrasonic distance sensor with UART, PWM and switch outputs, measuring 20-350 cm in one variant and 28-350 cm in another, with IP67 protection and 10uA quiescent current.



Range	Output
20-350cm	UART/PMW/switch
Blind zone	**Protection**
20cm	IP67

Features

- Blind zone 20cm or 28cm by variant
- Accuracy ±1cm + 0.3% of distance
- Temperature compensation
- DC3.3-5V supply
- 30cm cable with HY2.0-4Y terminal

Specifications

Plane mode	
Operating voltage	DC3.3-5V
Quiescent current	10uA
Measuring range	20-350cm
Human-body mode	
Measuring range	28-350cm
Plane mode	
Blind zone	20cm
Human-body mode	
Blind zone	28cm
Plane mode	
Output	UART/PMW/switch

Accuracy	±1cm+detection distance*0.3%
Temperature compensation	With temperature compensation

Wiring	
Cable terminal	HY2.0-4Y terminal wire, wire length 30cm
Pin 1 / red	VCC
Pin 2 / black	GND
Pin 3 / yellow	RX
Pin 4 / white	TX

Dimensions	
Length (large width)	63±0.2 mm
Height	32±0.2 mm
Mounting hole spacing	39.5±0.1 mm
Overall length (top-down view)	42±0.2 mm
Depth	16.7±0.1 mm
Cable length	300±20 mm
Ingress protection	IP67
Operating voltage	3.3-5 V
Output	UART / PWM / switch output

Ordering and support

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

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