Ultrasonic distance sensors

Four-Channel Ultrasonic Ranging Module, UART, RS485, Relay

Model A05-V1.1

Ranging module with four closed waterproof probes measuring distance in four directions, 28-450 cm range, 9-36 V supply and UART, RS485 or relay output.



Range	Accuracy
28-450 cm	±(1+S*0.3%) cm
Output	**Frequency**
UART serial	40K±1.0K Hz

Features

- Four integrated waterproof probes, 2.5 m cable each
- Dust and water resistant
- Reference angle ≈40° at 100cm
- Working cycle 280 ms
- Operating temperature -15-60 °C

Applications

Multi-direction distance measurement, Humid or harsh environments

Specifications

Number of probes	4
UART output	
Operating voltage	9-36 V
Average operating current	≤25 mA
RS485 output	
Average operating current	≤35 mA
Relay output	
Average operating current	≤45 mA
UART output	
Blind zone	0-28 cm

Flat-object measuring range	28-450 cm
Working cycle	280 ms
Output mode	UART serial

RS485 output

Output mode	RS485

Relay output

Output mode	Dry contact on/off

UART output

Response time	≤1 s

Relay output

Response time	≤2 s

UART output

Accuracy at room temperature	±(1+S*0.3%) cm
Reference angle at 100cm	≈40 °
Probe center frequency	40K±1.0K Hz
ESD	±4/±8 KV
Temperature compensation	Compensated
Operating temperature	-15-60 °C
Storage temperature	-25-80 °C
Operating humidity	≤80% RH
Storage humidity	≤90% RH
Probe cable length (per probe)	2.5 m
Output	UART / RS485 / relay output
Measuring range	28-450 cm

Ordering and support

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

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4 Xingye Road, Xiaowu Second Industrial Zone, Dongyong Town, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.