



ToF Rangefinder Module For Various IoT Applications

iSN-301H/V

iSN-301 series modules offer distance measurement based on ToF technology, facilitating project planning & execution.



Non-contacting distance measurement



Measuring range : 5 cm to 4 m



Adjustable time intervals for signal emissions



Configurable threshold ranges for distances

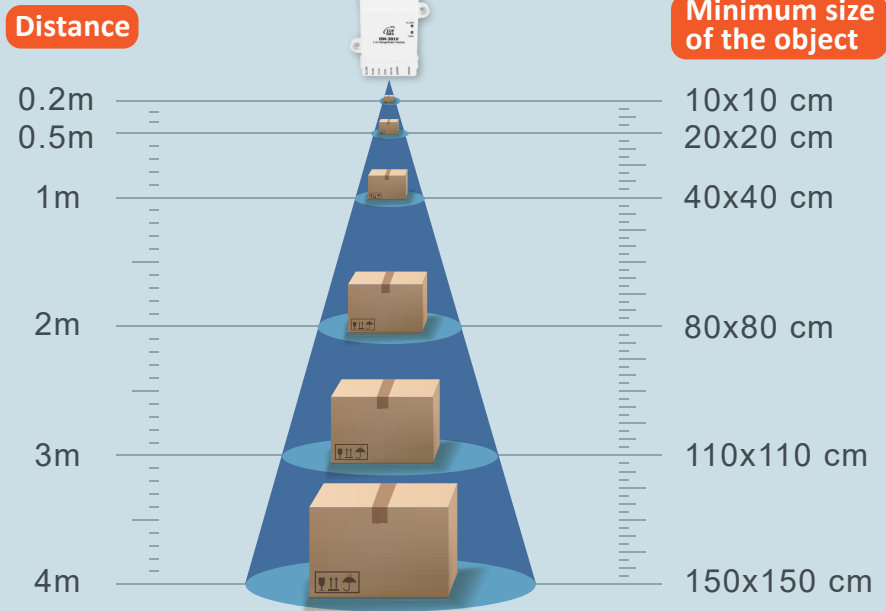


Support DCON and Modbus RTU protocols



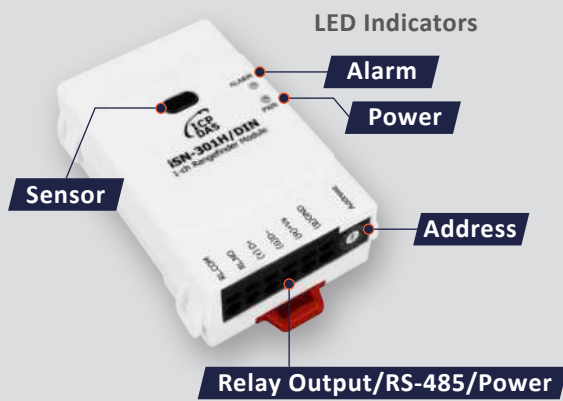
iSN-301H iSN-301V

Measuring range



Mechanical Details

iSN-301H / iSN-301H/DIN ▼



iSN-301V / iSN-301V/DIN ▼



Installation Type & Detection Direction



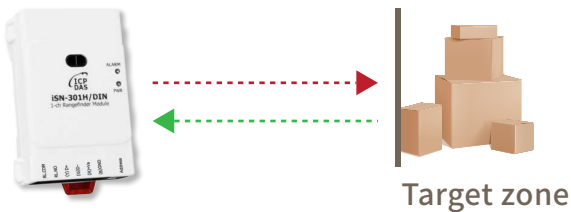
iSN-301H/V

iSN-301 series enables non-contacting distance measurement using time-of-flight (ToF) technology. It activates LED indicators with changes in distance measurements, and the region of interest is configurable for field-of-view (FoV). The modules integrate with the master on the same RS-485 network using DCON or Modbus RTU.



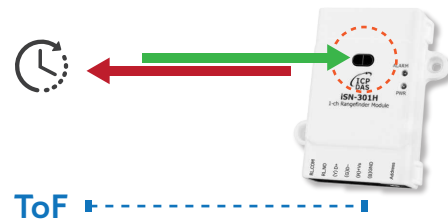
Features

Continuous detection



ToF and PIR differ in principles. ToF-based iSN-301 enables continuous detection in the presence of obstacles without object movement to activate functions.

ToF distance measurement



ToF-based iSN-301 measures distances to the target based on the round-trip time of light signals.

- Non-contacting ToF distance measurement
- Support DCON and Modbus RTU protocols
- Configurable threshold ranges for distances
- Adjustable measuring distance & time intervals for signal emissions
- Communication-capable (RS-485)
- Configurable region of interest
- Installation types : horizontal, vertical
- Provide one relay output



Grain Silo Level Measurement

- ToF Rangefinder Module tracks inventory in grain silos by measuring the distance changes. When used with the WISE-5231 Controller, notifications about storage levels are sent to the personnel for timely responses.



1-ch Rangefinder Module

iSN-301H



Edge Controller

WISE-5231M-4GE



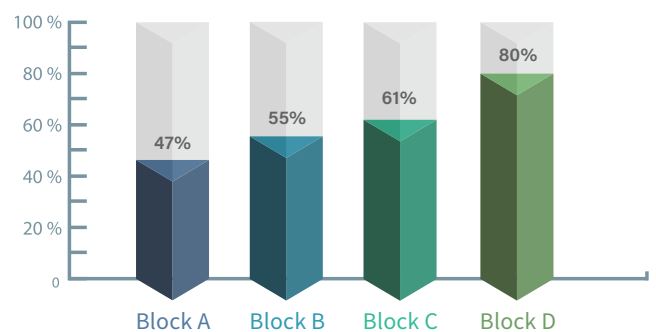
Alarm Siren

ALM-Horn-BR



Recycling Bin Level Measurement

- iSN-301 series offers one relay output that can be used with signaling devices to indicate bin levels. The modules transmit data to the control center, facilitating efficient schedule planning with eLogger software.



Selection Guide

1-ch Rangefinder Module

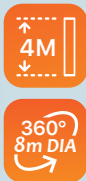
Horizontal

Vertical



Model	iSN-301H	iSN-301H/DIN	iSN-301V	iSN-301V/DIN
Range	5cm ~ 4m			
FoV	At an installation height of 2m, the object's min. diameter is 80cm At an installation height of 4m, the object's min. diameter is 150cm			
Precision	±5% (±20 cm)			
Resolution	1 mm			
Update Time	160 ~ 6000 ms, programmable			
Detection Direction	Horizontal		Vertical	
Ports	1 x RS-485			
Baud Rate	Software configuration : 1200 ~ 115200 bps			
Data Format	N,8,1 / O,8,1 / E,8,1 / N,8,2			
Protocol	Modbus RTU or DCON			
Node Address	0 ~ 255 for software configuration, 96 ~ 127 for hardware configuration			
Reversed Polarity Protection	Yes			
Input Range	10 ~ 30 VDC			
Power Consumption	1.2W Max.			
Installation	Wall Mounting	DIN-Rail	Wall Mounting	DIN-Rail

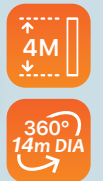
Related Products : PIR Motion Sensor Module



PIR-230-E
PIR-230-WF



PIR-231-E
PIR-231-WF



PIR-234-E/WF
PIR-234L-E/WF

- Built-in PIR sensors for smart control
- High-sensitivity type for motion detection
- Light control using PIR / Temp sensors, and relays
- Adjustable time delay / brightness / sensitivity

1 PIR sensor

4 PIR sensors



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