

Intellia Ultrasonic Level Sensor

INT-D-10



Introduction:

Biz4Intellia INT-D-10 LoRa ultrasonic distance sensor mainly for the detection of waste bin, Smart Sewer and other container's fill level. With a compact size and wide measure range, INT-D-10 can be installed to any types of waste bins or containers to monitor solid or liquid level. Besides, INT-D-10 equips with 3-axis accelerometer to detect the status of container cover. Compliant with Biz4Intellia LoRaWAN gateway and Biz4Intellia IoT platform, users can know the container status and fill-in level in real-time via web-app or mobile App remotely.

INT-D-10 can be widely used in waste management, water tank monitoring, manhole cover monitoring, etc.

Features:

- 3-450 cm wide measuring range with short blind zone
- Easy to install, suitable for various types of waste bins or containers
- Built-in 3-axis accelerometer sensor to monitor device tilt status
- IP67 waterproof and salt pray resistant enclosure for outdoor applications and easy to clean
- Ultra-wide-distance wireless transmission up to line of sight of 5 km
- Function well with standard LoRaWAN gateways and network servers
- Compliant with Biz4Intellia IoT Platform

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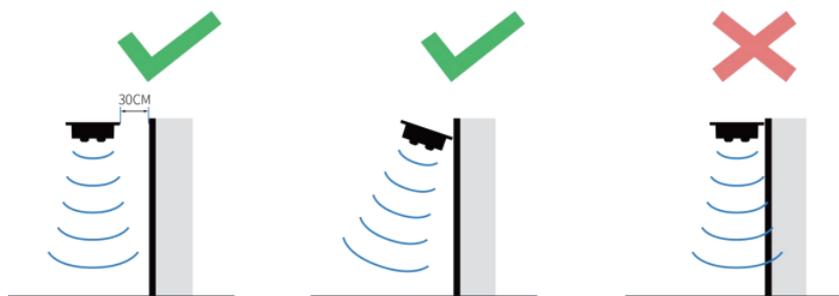
Address: 7380 W Sand Lake Rd #500, Orlando, FL 32819, USA

Specifications:

Wireless Transmission	
Technology	LoRaWAN
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Distance	
Detection Range	3 - 450 cm
Detection Accuracy	$\pm (1+0.3\%*S)$ cm, S=distance
Distance Resolution	1 mm
Device Position	
Status	Normal/Tilt
Operation	
Configuration	Gateway & Mobile App
Physical Characteristics	
Power Supply	2 x 3500 mAh ER17505 Li-SOCl ₂ battery
Battery Life*	≥5 years (10 min interval + 20 triggers per day)
Operating Temperature	-15°C to +60°C
Relative Humidity	≤90% (non-condensing)
Ingress Protection	IP67
Dimension	111 x 62 x 40 mm (4.37 x 2.44 x 1.57 in)
Weight	168g
Material & Color	ABS, Black
Installation	On the flat surfaces with screws

* Tested under laboratory conditions and for guideline purposes only.

Installation location:



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