

Sub-GHz Lidar People Counter



Smart Building, Smart City, Smart Facility, Smart Retail

SKU: WS433-LPC

WIRELESS LIDAR PEOPLE COUNTER WS433-LPC



WS433-LPC-H1.JPG

Safe Zone

Hazardous Zones

The WS433-LPC is a sensor with a built-in advanced LiDAR sensor that can count people in two directions with an accuracy of over 95%. The sensor is not affected by temperature, humidity, RF noise, and is less affected by ambient light. The wireless portion uses Sub-GHz technology from Texas Instruments, which allows for long-range transmission with ultra-low power consumption. It can wirelessly connect two ways to the wireless coordinator WS433-CL to send data and receive configuration information. The sensor can last up to 5 years with type AA batteries.

Typical applications include people counting for public toilets and for stores and shops.

Applications

Facility Monitoring, Safety Monitoring

Notes For Applications

- It counts one person at a time. For indoor only. Floor color must be bright;
- Gate width max 1500mm;
- Gate height from 2000 to 3500mm;
- Walking speed < 1.38 m/s (5 km/h);

High Accuracy & Stable
High accuracy counting by Lidar

Distinguish people in and out
Smart software and built-in sensors can distinguish people from entering and leaving accurately

Reliable & Secured Wireless Connection
Sub-GHz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128

Ultra-low power with 5 years battery
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology from Texas Instruments allow the sensor can last up to 5 years.

People Counter for Store, Shop...



WS433-LPC-H2.JPG

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Created date: Dec-21-2022


Updated date: Aug-28-2024


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Specification

SENSOR SPECIFICATION	
Sensor technology	Lidar
Detection range	max 4m
Detection cone	27°
Working temperature	-40~60°C
Working humidity	0~100% RH, non-condensing
WIRELESS SPECIFICATION	
Data speed	Up to 50kbps
Transmission distance, LOS	1000m
Antenna	Internal Antenna
Functions	Sending data in interval or when alarms occur
Battery	06 x AA Type 1.5VDC (not included)
Frequency Band	ISM 433MHz, Sub-GHz technology from Texas Instrument, USA
International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval Certification	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
Security Standard	AES-128
Operating temperature of PCB	-40~60°C (with Lithium Ultimate AA battery)
Housing/ Protection	Self-extinguisher ABS, Dust and vapor protection
Mounting	Ceiling mount
Dimension	H120xW80xD45
Net weight	<150g

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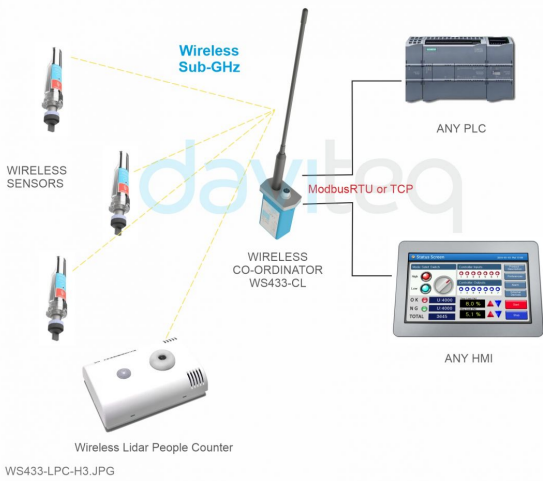
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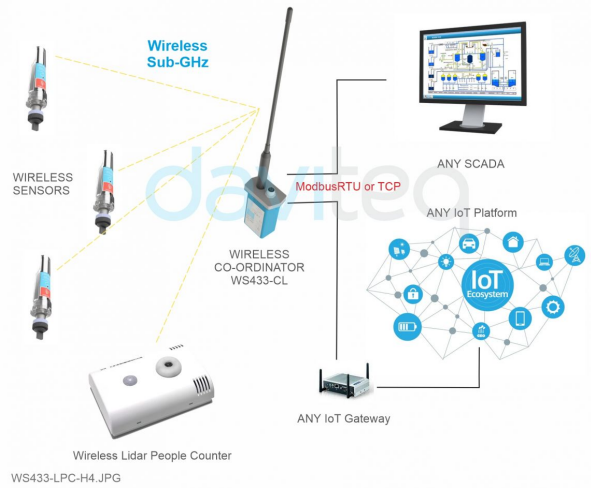
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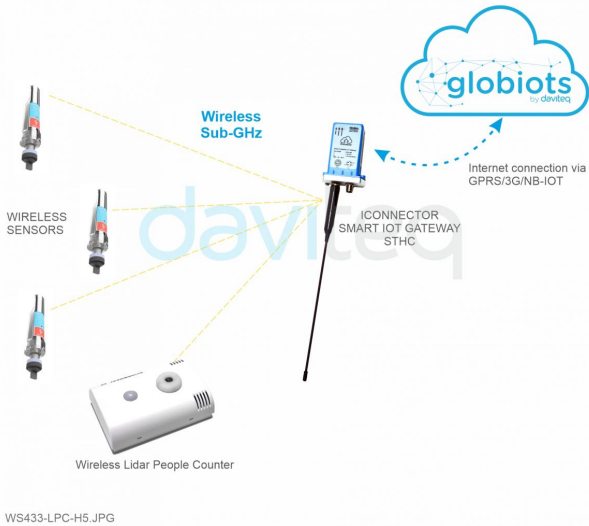
CONNECT WIRELESS SENSORS TO any PLC or HMI



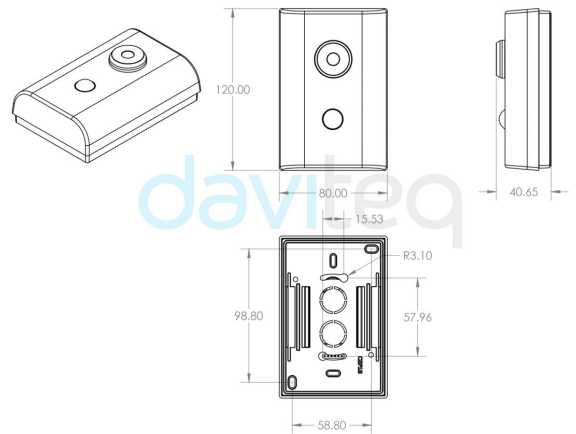
CONNECT WIRELESS SENSORS TO any SCADA or IoT Platform



CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



RECOMMENDED BATTERIES

E91 AA Alkaline battery



-18 .. + 60 oC working temperature
10-year shelf life
3000 mAh Capacity
Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature
20-year shelf life
3500 mAh Capacity
Price: 3.5X

WS5FC-LPC-H5.JPG

RECOMMENDED BATTERIES

E91 AA Alkaline battery



-18 .. + 60 oC working temperature
10-year shelf life
3000 mAh Capacity
Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature
20-year shelf life
3500 mAh Capacity
Price: 3.5X

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Ordering Information

ITEM CODE	DESCRIPTIONS
WS433-LPC-01	Sub-GHz LiDAR people counter, type AA battery 1.5VDC, IP20

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