IR Breakbeam People Counter

Featuring LoRaWAN®

VS360

◆ Introduction

The VS360 is a people counting sensor that is based on IR Breakbeam technology. Equipped with two devices, the principle is that the target blocks the infrared beam by detecting the area to achieve the purpose of counting, so it is not affected by the ambient temperature and the color of the target clothes, and it has strong adaptability. Adjusting the current of the node device reduces the power consumption and extends the battery life. As a Milesight D2D controller, the VS360 seamlessly communicates with other Milesight D2D agent devices, establishing more possible connections and paving the way for smoother operations.

With easy configuration and wireless detection, the VS360 facilitates simple deployment and connectivity. Compliant with the Milesight LoRaWAN® gateway and Milesight Development Platform, users can know the number of passage people and trigger other sensors or appliances easily.

Master Device **Node Device**

Features

- Provide good accuracy rate for bi-directional people counting without sunlight interference
- Based on IR Breakbeam technology which is not affected by ambient temperature with more adaptability
- Ultra-low power consumption with up to 3-year battery life without replacement
- Wireless connectivity and convenient size improve the accessibility and simplicity of deployment
- Visual data about people counting via screen
- Smart scheduled hibernate mode to save battery power
- Store locally historical records and support retransmission to prevent data loss
- Support Milesight D2D protocol to enable ultra-low latency and directly control without gateways
- Equipped with NFC for one touch configuration and support card emulation mode
- Function well with standard LoRaWAN® gateways and network servers
- Compatible with the Milesight Development Platform

Specifications

Measurement	
People Counting	
Technology	IR Breakbeam
Installation Height	0.7m ~ 1.2m
Detection Range	1.2m ~ 3 m
Detection Rate[1]	High Traffic Period Mode: Up to 90% (Single Person: Up to 99%) Low Traffic Period Mode: Up to 85% (Single Person: Up to 99%)
Bi-directional Counting	Support
Wireless Transmission	
Protocol	LoRaWAN®, Milesight D2D
Antenna	Internal Antenna
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/19 dBm (470 MHz)/22 dBm (915 MHz)
Sensitivity	-137dBm
Mode	OTAA/ABP Class A
Others	
Screen	1 × OLED Screen for Master Device
LED	1 × LED Indicator for Node Device
Button	1 × Power Button for Both devices 1 × Reset Button (Internal for Master Device)
Software	

Power On/Off	Mobile App via NFC or Power Button
Configuration	NFC Configuration via Mobile App (Master Device)
Advanced Feature	Hibernate Mode, Data Storage (1,000 entries), Data Retransmission, Data Retrievability, Milesight D2D Controller
Physical Characteristics	
Power Supply	2 x 2700 mAh ER14505 Li-$SOCl_2$ Replaceable Batteries for per device
Battery Life[2]	**Master device:** Around 4 Years (SF7, EU868 & US915) Around 3 Years (SF10, EU868 & US915) (10-min Report Interval, 12 Working Hour per Day, 25°C) **Node device:** High Traffic Period Mode: Around 3 Years Low Traffic Period Mode: Around 4 Years (12 Working Hour per Day, 25°C)
Operating Temperature	-20°C ~ 50°C
Relative Humidity	0% - 95% (Non-condensing)
Ingress Protection	IP30
Dimension	76 x 62 x 20 mm (2.99 x 2.44 x 0.79 in)
Material & Color	PC (Flame Retardant), White (Black Customizable)
Weight	**Master device:** 88.4g (Batteries included), 53g (Batteries excluded) **Node device:** 85g (Batteries included), 49.6g (Batteries excluded)
Installation	Wall Mount by 3M Tape or Screws
Approvals	
Regulatory	CE, FCC

[1] Test under the detection range is 1.5m.

[2] Tested under laboratory conditions and for guideline purposes only.

◆ Dimensions (mm)