

IR Breakbeam People Counter

Featuring LoRaWAN®

VS360

Milesight

◆ 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

- Provided up to 90% accuracy rate¹ 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 Mulesight 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 Mulesight Development Platform

◆ Specifications

| Measurement | |
|-------------------------|---|
| People Counting | |
| Technology | IR Breakbeam |
| Installation Height | 0.7m ~ 1.2m |
| Detection Range | 1.2m ~ 3 m |
| Bi-directional Counting | Support |
| Wireless Transmission | |
| Protocol | LoRaWAN [®] , Mulesight 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 × 62 × 20 mm (2.99 × 2.44 × 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)

