

IR Breakbeam People Counter Vicinia IPCS-IR3



People-counting sensor based on IR break-beam technology

The Vicinia IPCS-IR3 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 Vicinia D2D controller, the IPCS-IR3 seamlessly communicates with other Vicinia D2D agent devices, establishing more possible connections and paving the way for smoother operations.

With easy configuration and wireless detection, the Vicinia IPCS-IR3 facilitates simple deployment and connectivity. Compliant with the Vicinia LoRaWAN® gateway and Vicinia IoT Platform, users can know the number of passage people and trigger other sensors or appliances easily.

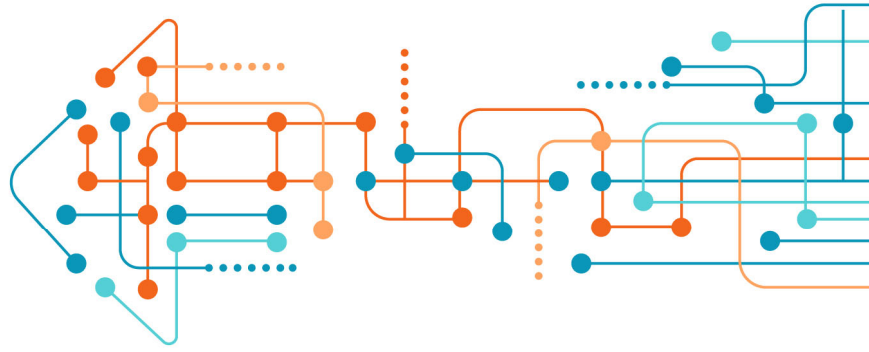
Note

- One year manufacturer warranty. Technical support for all life span.

Features

- Provided up to 90% accuracy rate (1) 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 Vicinia D2D protocol to enable ultra-low latency and direct 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 Vicinia IoT Platform

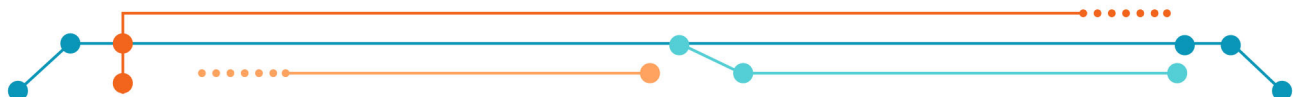


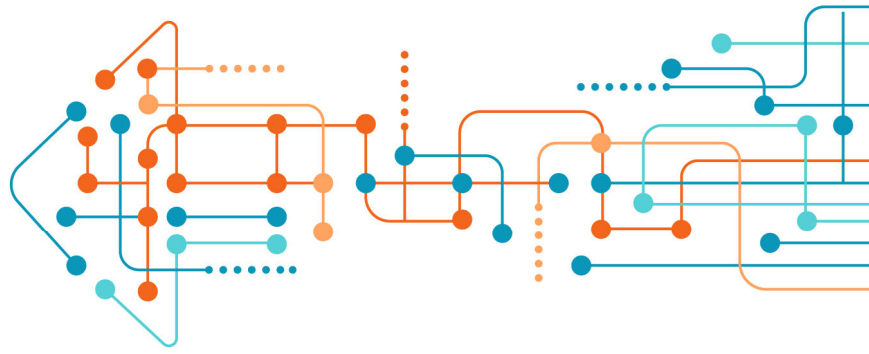


Specifications

Measurement	
Technology	IR Breakbeam
Installation Height	0.7m ~ 1.2m
Detection Range	1.2m ~ 3 m
Bi-directional Counting	Support
Wireless Transmission	
Protocol	LoRaWAN®, Vicinia 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 × 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, Vicinia D2D Controller
Physical Characteristics	
Power Supply	2 x 2700 mAh ER14505 Li-SOCI2 Replaceable Batteries for per device
Battery Life – Master Device (2)	Around 4 Years (SF7, EU868 & US915) Around 3 Years (SF10, EU868 & US915) (10-min Report Interval, 12 Working Hour per Day, 25°C)
Battery Life – Node Device (2)	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

(1) Tested at 1.5 m for the detection range. (2) Tested under laboratory conditions and for guideline purposes only.





Dimensions (mm)

