Desk&Seat Occupancy Sensor

Featuring LoRaWAN®

VS34x



VS34x is an occupancy sensor designed to detect whether desks or seats in a workspace are occupied, allowing for better management and optimization of space usage. The standard version of the sensor VS340 uses PIR technology for detection. The pro version VS341 applies additional Thermopile IR technology to provide more accurate and precise detection capabilities. VS34x features an adjustable field of view angle for greater flexibility in different scenarios. With wireless detection and easy configuration, the VS34x offers reliable and convenient desk or seat arrangement optimization. It is compatible with Milesight LoRaWAN® gateway and Milesight Development Platform solution, enabling real-time monitoring of desks and seats' status for effective remote management.

VS34x can be used in workstations, libraries, etc.

◆ Features

- Achieve up to 98% accuracy with a high-precision PIR sensor and an extra Thermopile IR Temperature sensor in the pro version
- Dual versions are available, including standard and Pro, to accommodate different latency requirements
- Provide different types of PIR covers for adjustable and flexible field angles and different detecting ranges.

- Support Milesight D2D protocol to enable ultra-low latency and directly control without gateways
- V0 grade flame retardant material makes it adaptable to various scenarios, enhancing safety and reliability
- Equipped with NFC for one-touch configuration, support card emulation mode
- Function well with standard LoRaWAN® gateways and network servers
- Compatible with Milesight IoT Cloud and Milesight Development Platform

◆ Specifications

Model	VS340	VS341
Occupancy Detection		
Technology	PIR	PIR & Thermopile
Recognition Rate	Up to 95%	Up to 98%[1]
PIR Detection Area	107 ° Horizontal, 107 ° Vertical	
PIR Detection Distance	Within 1m	
Thermopile Detection Area	----	50° (50% level of sensitivity)
Wireless Transmission		
Protocol	LoRaWAN®, Milesight D2D	
Antenna	Internal Antenna	
Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4	
Tx Power	16 dBm (868 MHz)/20 dBm (915 MHz)/19 dBm (470 MHz)	
Sensitivity	-137 dBm	
Mode	OTAA/ABP Class A	
Others		
Button	1 x Power/Reset Button (Internal)	
Indicator	1 × Status Indicator	
Software		
Power On/Off	Mobile App via NFC or Power Button	
Configuration	NFC via Mobile App, Downlink	
Advanced Feature	Milesight D2D Controller	
Physical Characteristics		
Power Supply	1 x 4000 mAh ER18505 Li-SOCL$_2$ Battery	
Battery Life[2]	Over 10 Years (SF7, EU868 &	Over 10 Years (SF7, EU868 &

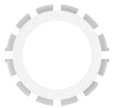
(1440 min interval + 100 Triggers per Day, LED Disabled, 25°C)	US915) Around 5.4 Years (SF10, EU868) Around 5.2 Years (SF10, US915)	US915) Around 5.2 Years (SF10, EU868) Around 5.1 Years (SF10, US915)
Operating Temperature	-20°C ~ +60°C	
Relative Humidity	0 ~ 95% (Non-condensing)	
Dimension	73 x 73 x 26 mm (2.87 x 2.87 x 1.02 in) (Without PIR Cover)	
Weight	90g	
Ingress Protection	IP30	
Color & Material	White + Grey, PC + ABS (Flame Retardant)	
Installation	3M Tape Mounting, Wall Screw Mounting	

[1]The temperature range of thermopile to reach best recognition rate is +10 to +30 °C.

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

◆ PIR Cover Reference Guidance

When installation height is 70cm, the PIR detection area can be referred as below:

PIR Cover	PIR Detection Area	Usage Scenario
	70 ° Horizontal, 60 ° Vertical, 1 m × 0.9 m	Single Person Desk
	70 ° Horizontal, 107 ° Vertical, 1 m × 1.8 m	Face to Face Desk
	107 ° Horizontal, 53.5 ° Vertical, 1.8 m × 0.9 m	Bar Table
	107 ° Horizontal, 107 ° Vertical, 1.8 m × 1.8 m	Round Table
	N/A	Support to be tailored as required

◆ Dimensions (mm)

