

# WIRELESS PASSIVE INFRARED (PIR) SENSOR WITH INTERNAL ANTENNA



## INFORMATION

Format	Coin Cell
Frequency	868 MHz

Xemote ultra low-power wireless Passive Infrared (PIR) sensors can be powered from either a coin cell battery or an external source. The sensor is ideal for applications requiring measurement of people activity and counting the number of movements in each area. Xemote PIR sensors measure as standard total detection count, left-to-right detection count, right-to-left detection count and detection percentage.

## HIGHLIGHTS

- Up to 128 sensors connected to a single gateway
- Ultra-low power
- ISM band wireless
- Critical Data Recovery (CDR) feature, 21 days at 10 min posting intervals
- Non-intrusive installation

## APPLICATIONS

- People or livestock movement detection
- Area activity indication i.e. traffic percentage in a time span
- Area access monitoring
- Estimated people counting applications

## SENSOR SPECIFICATIONS

### Passive Infrared

Detection Range	Up to 6m depending on factory configuration
Max Horizontal View Angle	140°
Max Vertical View Angle	100°
Hysteresis Time	2s to 11.9 hours (42840 seconds)
Blocking Time	1s to 11.9 hours (42840 seconds)
Filtering Features	3µm long pass wavelength

### Coin Cell

Battery Type	CR2450
Classification	Lithium Coin
Typical Capacity	620mAh
Dimensions	24.5mm x 5.0mm
Max Operating Temperature	-20 °C to +60 °C
Optimal Battery Operating Temperature	+10 °C to +50 °C
Supply Voltage	2.0 - 3.6 V
Battery Life	~3 years (depending on hysteresis, blocking time and posting rate)

### Wireless

Frequency	868 MHz Operating Frequency
Range	Up to 150 m non-line-of-sight device range (actual range may vary depending on environment). Longer ranges available with GSM Gateway 868Mhz outdoor Omni antenna 6dB gain. (Typically, 300 m plus)

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# WIRELESS PASSIVE INFRARED (PIR) SENSOR WITH INTERNAL ANTENNA



Security	Encrypted
Certifications	ETSI EN 300 220-2 V2.4.1 (2012-05)
Antenna	Internal
<b>I/O</b>	
Bidirectional IO Ports	2x Internal Input / Output
Logic Level	3.3V
Drive Current	20mA Max
<b>Mechanical</b>	
Dimensions	80mm x 40mm x 20mm 96.3mm x 40mm x 20mm – Including flanges
Weight	0.035 kg
Material	ABS Plastic
Mounting Options	Wall mount flanges, button magnet, Velcro strips, double sided tape
<b>Environmental</b>	
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +45 °C (Incl. Battery)
<b>Warranty Terms</b>	
Period	12 months

## ORDERING INFORMATION

Part Number	Details	Configuration
XEMT4-30001	Wireless coin cell PIR sensor	Supplied with 1x CR2450 coin cell battery.

*Product images are for illustrative purposes only and may differ from the actual product.  
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For more information about our products, please contact our sales department.

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