

WIRELESS IR-BEAM SIDE VIEW MOTION DETECTION SENSOR WITH EXTERNAL ANTENNA



INFORMATION

Format	Coin Cell
Frequency	868 MHz

Xemote ultra low-power wireless IR sensors have an IR transmitter and receiver built in. This configuration is ideal for short range beam applications such as non-intrusive door open/close detection, human counting and asset monitoring.

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

- Non-intrusive and easy to install door open/close sensor. Ideal for cold storage sliding doors.
- Asset monitoring
- Safe zone monitoring

SENSOR SPECIFICATIONS

Infrared

Beam Range	5 mm to 30 cm depending on interference sources and reflective surfaces.
Transmitter Angle	$\pm 10^\circ$
Receiver Angle	45°
Hysteresis Time	1s to 11.9 hours (42840 seconds)
Polling Time	Adjustable from 1s to 12 hours
Blocking Time	1s to 11.9 hours (42840 seconds)
Filtering Features	38 kHz, 940 nm, modulated IR-beam for improved ambient light performance.

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, polling time, IR Tx power and posting time)

Wireless

Frequency	868 MHz Operating Frequency
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Range	Up to 200 m 50 - 300 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)
Security	Encrypted
Certifications	ETSI EN 300 220-2 V2.4.1 (2012-05)
Antenna	Right angle or Straight angle on request
I/O	
Bidirectional IO Ports	2x Internal Input / Output
Logic Level	3.3V
Drive Current	20mA Max
Mechanical	
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
Environmental	
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +45 °C (Incl. Battery)
Warranty Terms	
Period	12 months

ORDERING INFORMATION

Part Number	Details	Configuration
XEMT4-30013	Wireless coin cell IR sensor	Supplied with 1x CR2450 coin cell battery with right-angle antenna Straight-angle antenna on request

*Product images are for illustrative purposes only and may differ from the actual product.
Specifications are subject to change without notice.*

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