

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



INFORMATION

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| 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

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|--------------------|---|
| 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

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|---------------------------------------|--|
| 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

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|-----------|-----------------------------|
| Frequency | 868 MHz Operating Frequency |
|-----------|-----------------------------|

For more information about our products, please contact our sales department.

Visit our website at www.xemote.co.za | sales@xemote.co.za

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Rev 1.0.3

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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 |
|-------------|------------------------------|---|
| XEMT4-30011 | 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.*