

Tech datasheet

Motion Detector Kit

Reference:
ACCMOTIONDETKIT



The kit allows for sending SMS alerts upon detecting motion in monitored rooms. The heart of the kit is a Bosch PIR motion sensor. When motion is detected in the protected zone, the sensor changes the state of its relay output.

The SMSEagle gateway reacts to this state change by triggering a defined action – e.g., sending an SMS or voice message to a specified person or group.

Kit includes

Bosch Motion Detector: 12×12 m detection range, PIR technology, FSP signal processing, NC alarm relay output, tamper protection, EN50130-5 Class II compliant.
Power Adapter (SYS1121 Series)

AC Power Adapter: high-efficiency switching power supply, providing stable and safe power for the detector. Input voltage range: 110-230V AC.

Connection Cable: 5 m, 4-core (power + signal), ferrule crimped, with DC socket and protected transitions.

Mounting Hardware: Adjustable wall mount bracket for precise sensor positioning.

Installation

Installation is simple and comes down to three steps:

1. **Mounting:** Mount the detector on the wall using the included wall mount bracket.
2. **Power:** Connect the dedicated cable to the detector. (Black(-), Red(+), Orange(NC), Brown(NC)). Then, plug the power adapter into the DC socket on the cable, and plug the adapter itself into the 110-230V main socket.
3. **Signal to SMSEagle:** Plug the prepared terminal block into the Digital Input (DI) port on your SMSEagle gateway.

Technical Parameters of the Kit Components

1. Bosch Motion Detector

A professional passive infrared (PIR) detector with advanced First Step Processing (FSP) for false alarm elimination.

Dynamic Temperature Compensation

The detector intelligently adjusts its sensitivity so that it can identify human intruders at virtually any temperature.

Wall-to-Wall Coverage

An improved lookdown zone and coverage range of 12 m x 12 m (40 ft x 40 ft) provide wall-to-wall coverage.

Detection Parameters:

Technology: Passive Infrared (PIR)

Range: 12 m x 12 m

Mounting Height: Recommended 2.2 m to 2.75 m (no adjustment required)

Signal Processing: FSP (First Step Processing) fast response

Compensation: Dynamic temperature compensation

Electrical:

Operating Voltage: 110–230V using the AC/DC power adapter included in the kit.

Motion detector voltage: 12 VDC

Current Consumption (Standby / Alarm): 10 mA (at 12 VDC)

Outputs:

Relay (Alarm): Solid-state, supervised, Form A contacts (Normally Closed / NC).

Relay Rating: ≤ 100 mA, 25 VDC, 2.5 W

Tamper Protection: Normally Closed (NC) contacts (with cover on).

Tamper Contact Rating: ≤ 100 mA, 25 VDC, 2.5 W

Physical & Environmental:

Dimensions: 105 x 61 x 44 mm

Housing Material: High-impact ABS plastic

Color: White

Operating Temperature: -30°C to 55°C

Relative Humidity: 0 to 95% (non-condensing)

Compliance: EN50130-5, Class II

RF Immunity: High (tested up to 30 V/m from 150 kHz - 2 GHz)

| Region | Certification | |
|-------------|---------------|---|
| Europe | CE | 2004/108/EC: EMC Directive and 2006/95/EC: Low-Voltage Directive |
| | CERTA-LARM | EN50131-2-2 [-W12] EN50131-2-2 [-WP12] |
| Belgium | INCERT | B-509-0051/b [ISC-BPR2-W12, WP12] |
| Norway | FG | GODKJENNELSESBEVIS [-W12, -WP12] |
| USA | UL | cULs - ANSR: Intrusion-detection Units (UL 639), ANSR7: Intrusion-detection Units Certified for Canada (ULC-S306) [W12 and -WP12] |
| France | AFNOR | 2620200001Ao [-W12] 2620200001Bo [-WP12] |
| Sweden | INTYG | 11-268 [-WP12] 11-269 [-W12] |
| Netherlands | NCP | 2011062 [ISC-BPR2-w12, -WP12, ISCBPQ2-W12, ISC-BDL2-W12G, ISC-B-DL2WP12G, ISC-BDL2-WP6G] |
| Bulgaria | GD FSPF | GODKJENNELSESBEVIS [-W12, -WP12] |

These detectors are also designed to comply with the following:

| | |
|--------|--|
| Europe | Complies with EN50131-2-2 Grade 2 |
| | Complies with EN50130-5 Class II |
| | Complies with EN60529, EN50102 (IP30, IK04) |
| | Complies with Directive 2002/95/EC - Restriction of the use of certain Hazardous Substances (RoHS) |

2. Connection Cable

Length: 5 meters

Power: DC 5.5/2.1mm socket (female, center positive)

Signal: Crimped ferrules (for the terminal block)

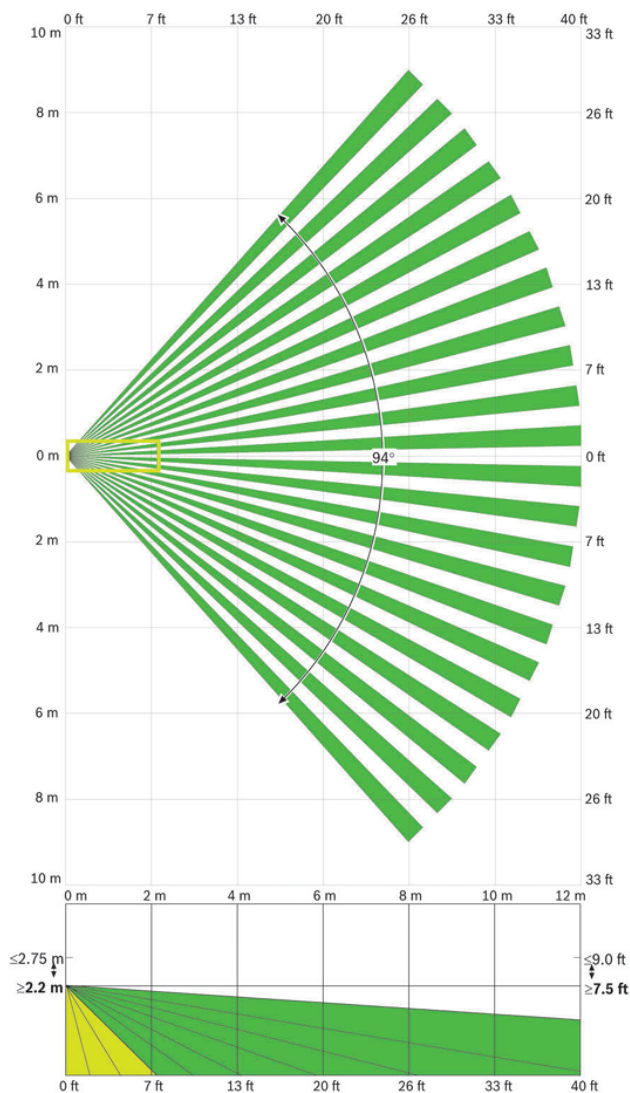
3. Mounting Kit

Function: Wall mounting

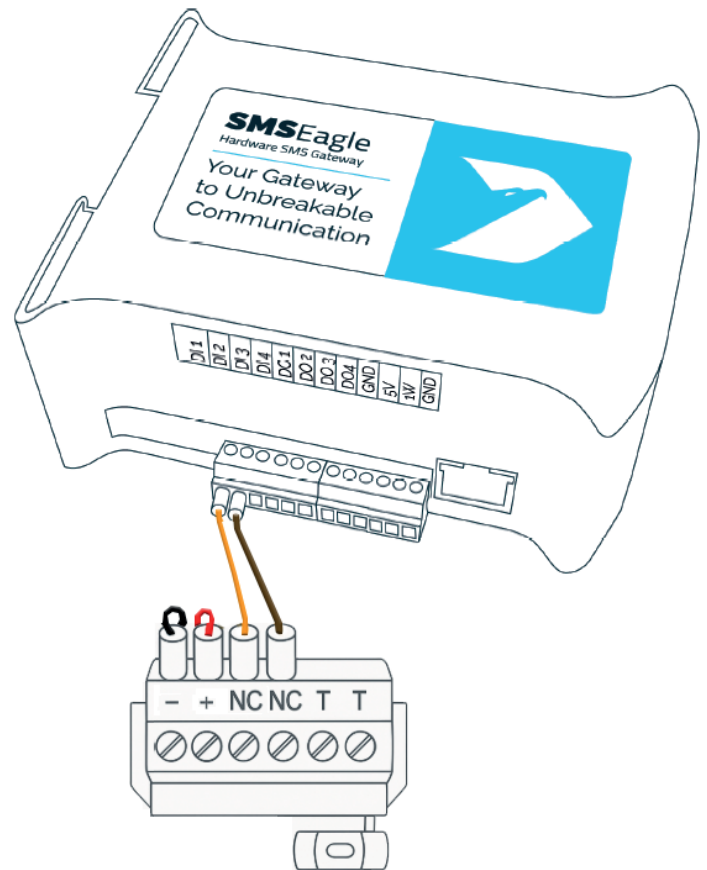
Adjustment: Allows for precise adjustment of the detector's tilt angle.

Configuration Notes

Coverage Patterns



Wiring Diagram



Mounting

The recommended mounting height is 2.2 m to 2.75 m (7.5 ft to 9 ft) with no adjustments required. Mount the motion detector level, both horizontally and vertically.

Mounting options:

- On a flat wall (surface, semi-flush), with the optional B335-3 Swiveling low-profile mount, or with the optional B328 Gimbal-mount Bracket
- In a corner (the junction of two perpendicular walls)

Useful external links

Product accessories: <https://www.smseagle.eu/products/accessories/>