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SCS Sentinel HCN0044

SCS Sentinel HCN0044 Outdoor Motion Detector User Manual

Model: HCN0044 (Reference: SCS T09B)

1. Introduction

Thank you for choosing the SCS Sentinel HCN0044 Outdoor Motion Detector. This device is designed to enhance your outdoor security by automatically activating lighting upon detecting human movement. It features a 180° detection angle and a range of up to 12 meters in an open field. Please read this manual carefully before installation and operation to ensure proper function and safety.

2. Safety Instructions

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure the power supply is disconnected before any installation or maintenance work.
- **Voltage:** This device operates on 230V AC/50Hz. Do not connect it to any other voltage supply.
- **Outdoor Use:** The detector is rated IP44 for weather resistance, meaning it is protected against solid objects larger than 1mm and splashing water from any direction. It is suitable for outdoor use under shelter.
- **Temperature:** Operate the device within the specified temperature range of -20°C to +40°C.
- **Mounting:** Mount the detector securely to a stable surface using the provided hardware.
- **Children:** Keep the device out of reach of children.

3. Package Contents

Verify that all components are present in the package:

- 1 x SCS Sentinel HCN0044 Outdoor Motion Detector (Black)
- Necessary mounting screws and wall plugs
- Explanatory instruction manual

4. Product Overview and Features

The SCS Sentinel HCN0044 is a passive infrared (PIR) motion detector designed for outdoor lighting control. Its key features include:

- **Detection Angle:** 180° volumetric infrared detection.
- **Detection Distance:** Up to 12 meters in an open field.
- **Power Supply:** 230V AC / 50Hz.
- **Maximum Load:** 1200W for incandescent lamps, 300W for energy-saving lamps.
- **Temporization:** Adjustable lighting duration from approximately 10 seconds to 8 minutes.
- **Lux Control Level:** Adjustable ambient light threshold from 10 to 50 lux.
- **Operating Temperature:** -20°C to +40°C.
- **Weather Resistance:** IP44 rated.
- **Dimensions:** 60 x 88 x 100 mm.



This image displays the SCS Sentinel HCN0044 outdoor motion detector. It is a compact, black unit with a prominent white sensor lens at the front, designed for wall mounting.

5. Setup and Installation

Proper installation is crucial for optimal performance. It is recommended that installation be carried out by a qualified professional.

5.1. Choosing a Location

- Install the detector at a height that allows for optimal detection coverage. Common locations include porches, near entry doors, on awning pillars, or in gardens.
- Avoid pointing the sensor directly at heat sources (e.g., vents, windows exposed to direct sunlight) or moving objects (e.g., tree branches) that could cause false triggers.

- Ensure the chosen location provides a clear line of sight to the area you wish to monitor.

5.2. Mounting the Device

1. **Disconnect Power:** Before starting, ensure the main power supply to the installation area is turned off at the circuit breaker.
2. **Mark Drilling Points:** Use the detector's mounting holes as a template to mark the drilling points on the wall.
3. **Drill Holes:** Drill holes at the marked points and insert the provided wall plugs.
4. **Secure the Detector:** Mount the detector to the wall using the provided screws. Ensure it is firmly attached.

5.3. Electrical Connection

Connect the detector to your electrical system and the light fixture according to the wiring diagram provided in the detailed explanatory notice. Typically, this involves connecting Live, Neutral, and Load wires. **Always ensure power is off during wiring.**

6. Operating Instructions

The SCS Sentinel HCN0044 motion detector features adjustable settings for temporization (light duration) and lux control (ambient light sensitivity).

6.1. Temporization Adjustment (TIME)

This setting controls how long the connected light remains on after motion is detected. The duration is adjustable from approximately 10 seconds to 8 minutes.

- Locate the 'TIME' adjustment knob or dial on the detector.
- Turn the knob clockwise to increase the light duration.
- Turn the knob counter-clockwise to decrease the light duration.

6.2. Lux Control Adjustment (LUX)

This setting determines the ambient light level at which the detector will become active. For example, if set to a low lux value, the light will only activate in very dark conditions. If set to a high lux value, it will activate even in twilight or dim daylight.

- Locate the 'LUX' adjustment knob or dial on the detector.
- Turn the knob towards the 'sun' symbol for activation in brighter conditions (higher lux).
- Turn the knob towards the 'moon' symbol for activation only in darker conditions (lower lux).

6.3. Testing the Detector

After installation and adjustment, test the detector by walking through its detection zone. Observe if the light activates as expected and stays on for the set duration. Adjust settings as needed.

7. Maintenance

The SCS Sentinel HCN0044 motion detector requires minimal maintenance.

- **Cleaning:** Periodically wipe the sensor lens with a soft, damp cloth to remove dust, dirt, or spiderwebs that may obstruct detection. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the mounting and electrical connections for any signs of wear or damage.

- **Environmental Factors:** Ensure no new obstructions (e.g., growing plants, new structures) are blocking the sensor's field of view.

8. Troubleshooting

If you encounter issues with your motion detector, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	◦ No power supply. ◦ LUX setting is too low (set for darker conditions). ◦ Bulb is faulty. ◦ Wiring error. ◦ Sensor obstructed.	◦ Check power supply and circuit breaker. ◦ Adjust LUX setting towards the 'sun' symbol. ◦ Replace the bulb. ◦ Verify wiring connections (consult an electrician). ◦ Clear any obstructions from the sensor lens.
Light stays on continuously or turns on randomly.	◦ LUX setting is too high (activates in daylight). ◦ Constant motion in detection zone. ◦ Sensor detecting heat sources or moving objects (e.g., tree branches, pets). ◦ Temporization setting is too long. ◦ Faulty unit.	◦ Adjust LUX setting towards the 'moon' symbol. ◦ Relocate the detector or adjust its angle to avoid constant motion. ◦ Adjust the sensor's angle or relocate to avoid interference from heat sources or moving objects. ◦ Adjust TIME setting to a shorter duration. ◦ If problems persist, contact customer support.
Detection range is too short or inconsistent.	◦ Incorrect mounting height. ◦ Sensor obstructed. ◦ Temperature extremes affecting sensor performance.	◦ Ensure optimal mounting height as per instructions. ◦ Clean the sensor lens and clear obstructions. ◦ Ensure operating within specified temperature range.

9. Specifications

Model Number	HCN0044 (SCS T09B)
Brand	SCS Sentinel
Power Supply	230V AC / 50Hz
Detection Angle	180°

Detection Distance	Max. 12 meters (open field)
Max. Load (Incandescent)	1200W
Max. Load (Energy-saving)	300W
Temporization Duration	Adjustable 10 seconds to 8 minutes
Lux Control Level	Adjustable 10 to 50 lux
Operating Temperature	-20°C to +40°C
Ingress Protection (IP) Rating	IP44
Product Dimensions (L x W x H)	60 x 88 x 100 mm
Weight	160 grams
Color	Black

10. Warranty and Support

SCS Sentinel guarantees the reliability of its innovative technical products. This product is designed for easy installation and use, combining comfort and security.
For any assistance with installation or operation, our technical support team based in France is available to provide expert and personalized advice. Your satisfaction is our priority.
Please refer to your purchase documentation for specific warranty terms and contact information.

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