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ChiliTec 22426

ChiliTec Mini 360° HF Motion Detector (Model 22426) User Manual

Brand: ChiliTec | **Model:** 22426

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of your ChiliTec Mini 360° HF Motion Detector, Model 22426. This high-frequency sensor is designed to automatically switch lights on when motion is detected, offering convenience and energy efficiency. It is suitable for integration into existing wall or ceiling luminaires in various indoor environments such as hallways, basements, storage rooms, and offices.

2. Safety Information

WARNING: Electrical installation should only be performed by a qualified electrician. Ensure the main power supply is disconnected before commencing any installation or maintenance work to prevent electric shock.

- Do not expose the device to moisture or extreme temperatures.
- Ensure all connections are secure and correctly wired according to the diagram.
- The device is designed for indoor use only.
- For detailed safety information, please refer to the official safety document:Safety Information (PDF).

3. Product Components and Features

The ChiliTec Mini 360° HF Motion Detector is a compact unit designed for discreet integration. Key features include:

- **High-Frequency (HF) Technology:** Detects motion through thin walls and ceilings.
- **Wide Detection Angle:** 180°/360° coverage.
- **Adjustable Settings:** Twilight threshold (LUX), sensitivity (SENS), and switching duration (TIME).
- **Presence Detector Function:** Light remains on as long as motion is detected within the set time.
- **Compact Design:** Dimensions of 62 x 38 x 25 mm for easy integration.

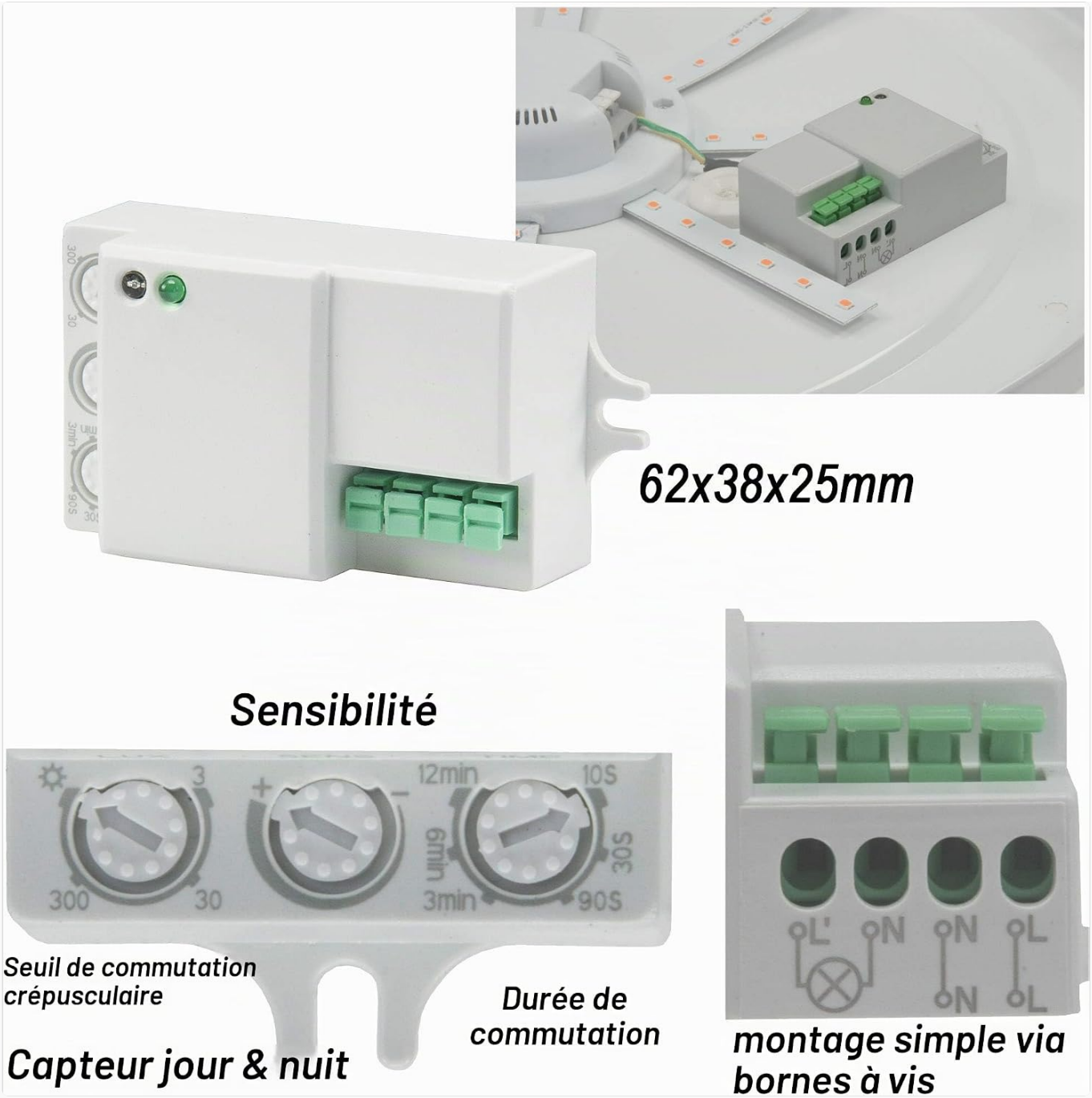


Figure 1: Overview of the ChiliTec Mini 360° HF Motion Detector, showing its compact size (62x38x25mm) and the three adjustable dials for LUX, SENS, and TIME settings.

4. Setup and Installation

The detector is designed for easy integration into existing 230V luminaires. Follow these steps carefully:

1. **Disconnect Power:** Before starting any electrical work, ensure the main power supply to the luminaire circuit is switched off at the fuse box or circuit breaker.
2. **Prepare Luminaire:** Open the existing wall or ceiling luminaire where the detector will be installed. Ensure there is sufficient space for the detector (62 x 38 x 25 mm).
3. **Wiring Connections:** Identify the live (L), neutral (N), and switched live (L') wires from your luminaire and power supply. Connect them to the detector's screw terminals as shown in the diagram below.

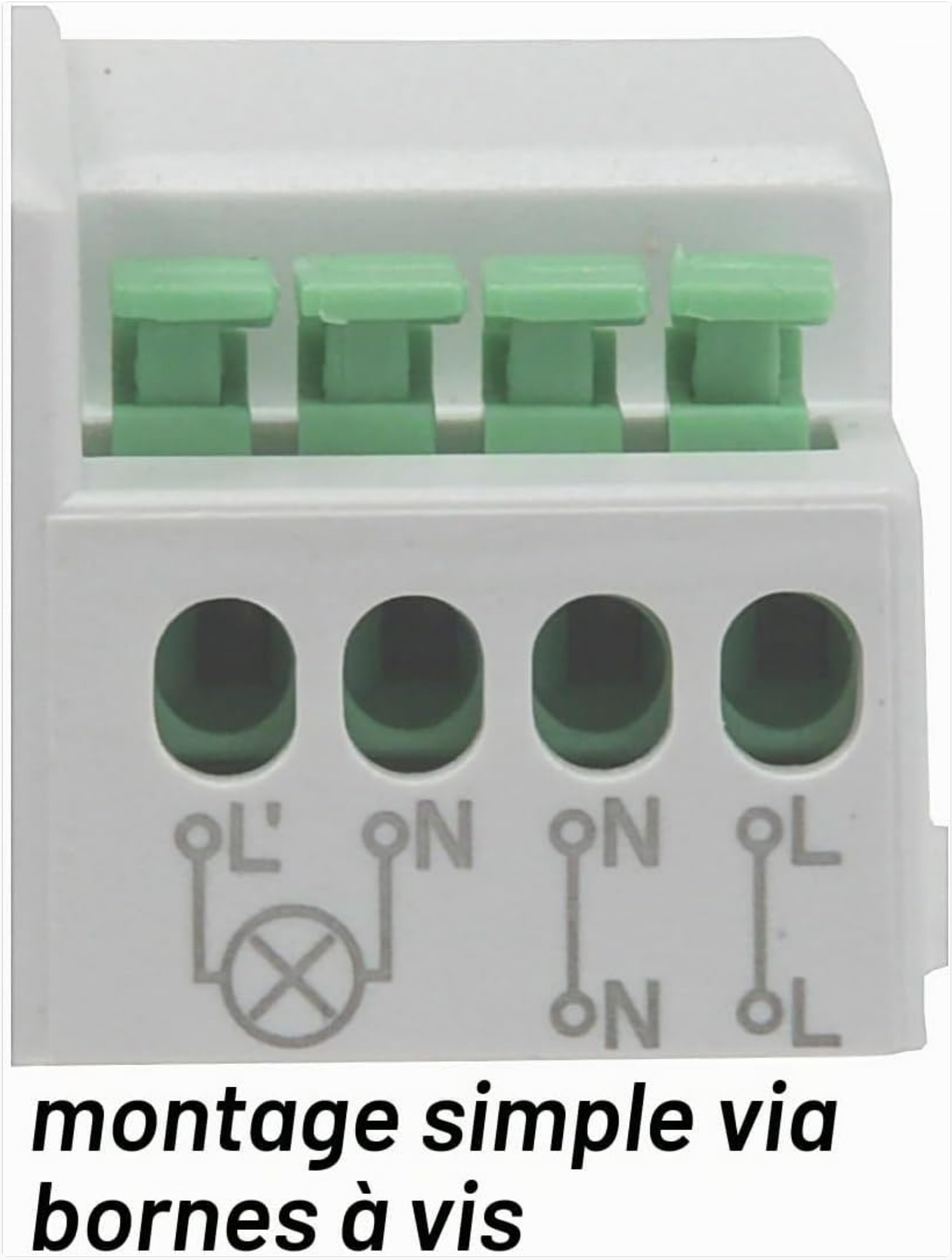


Figure 2: Detailed view of the screw terminals for wiring. Connect the incoming Live (L), Neutral (N), and the switched Live (L') to the light fixture.

4. **Secure Detector:** Place the detector securely within the luminaire housing.

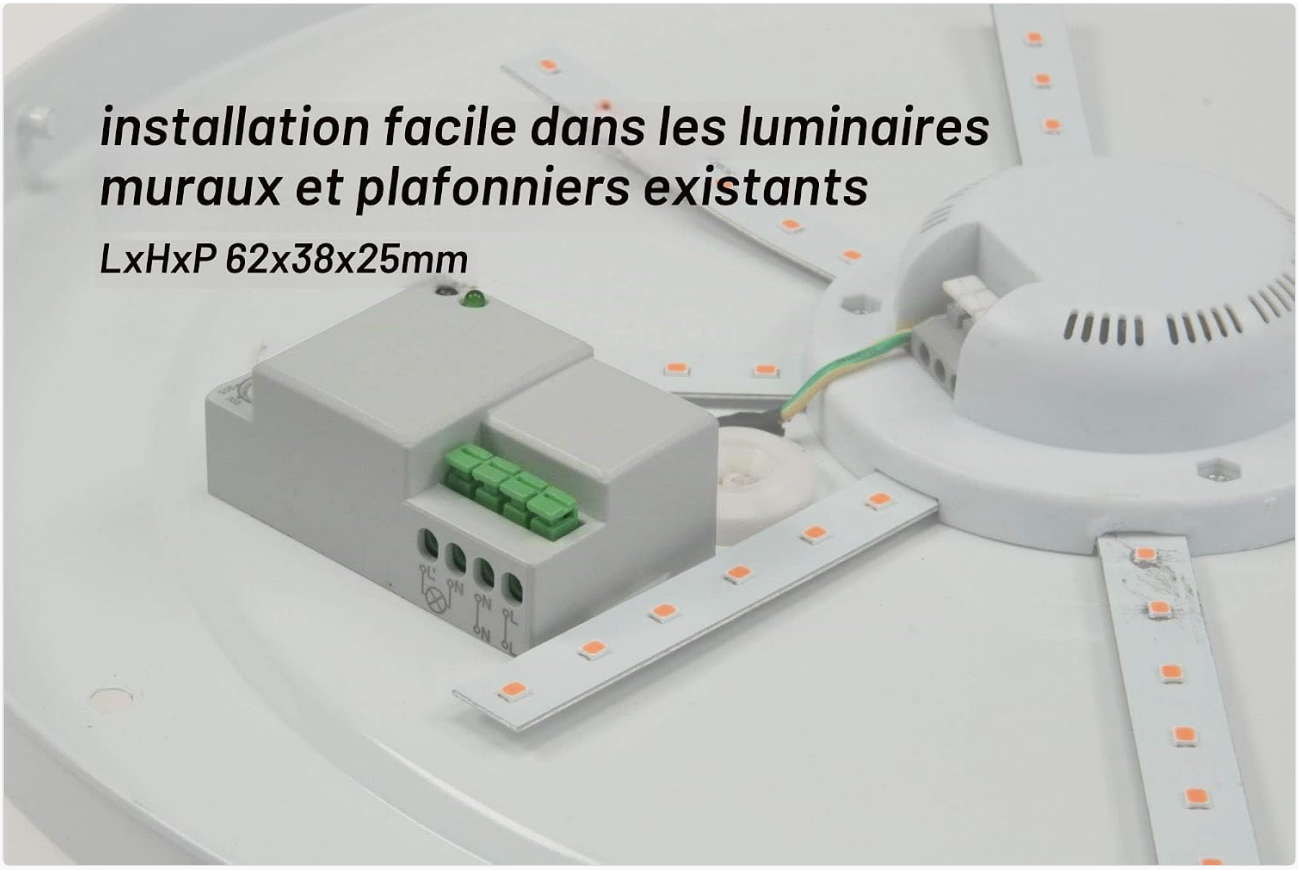


Figure 3: Example of the motion detector integrated into an existing ceiling light fixture, demonstrating its compact fit.

5. **Close Luminaire:** Carefully close the luminaire, ensuring no wires are pinched.
6. **Restore Power:** Switch the main power supply back on. The detector is now ready for configuration.

5. Operating Instructions and Adjustments

The detector features three adjustable dials to customize its operation:

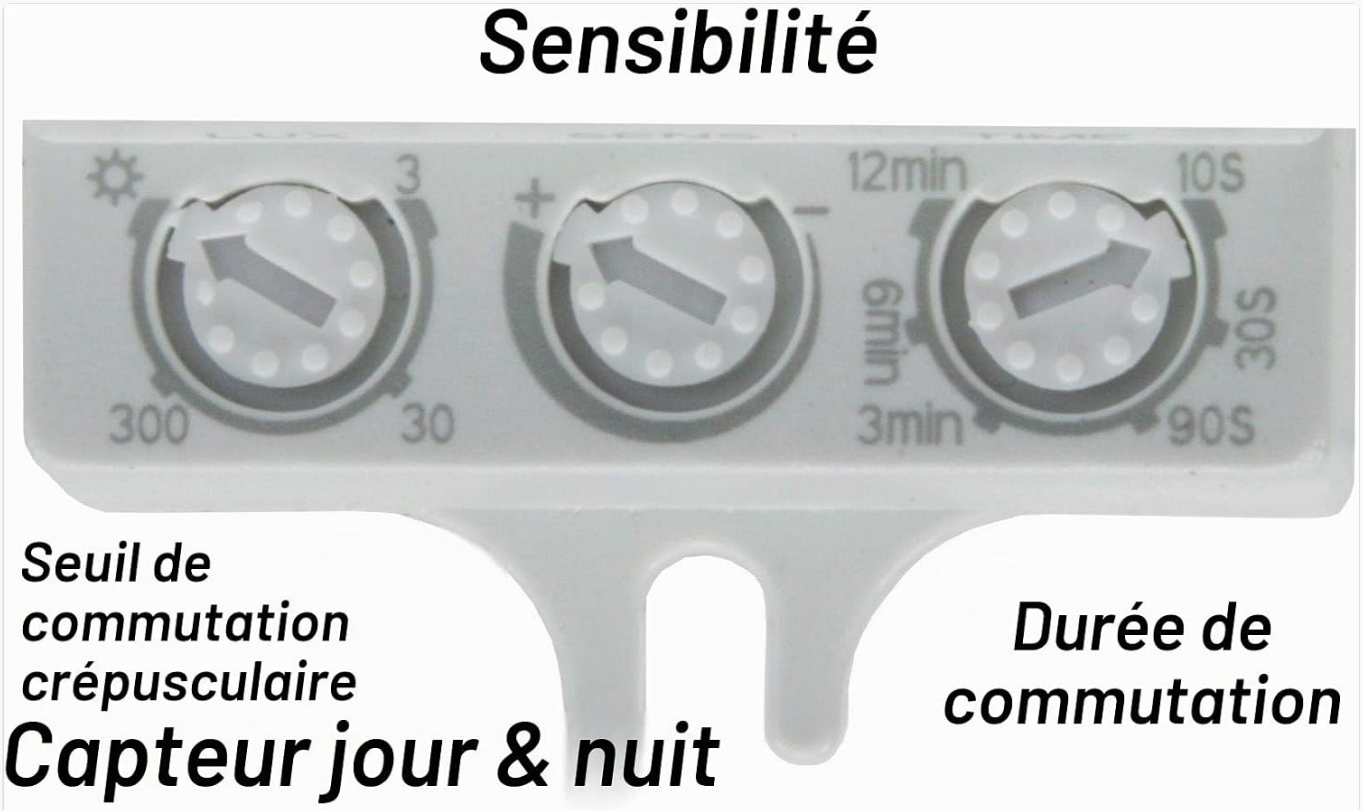


Figure 4: The three adjustment dials: LUX (left), SENS (middle), and TIME (right).

1. **LUX (Twilight Switch):** This dial controls the ambient light level at which the sensor becomes active.
    - Turn towards the **sun icon** (max 2000 lux) for the sensor to be active during both day and night.
    - Turn towards the **moon icon** (min 3 lux) for the sensor to be active only in dark conditions.
2. **SENS (Sensitivity):** This dial adjusts the detection range of the sensor.
    - Adjust to a lower setting for a shorter detection range (e.g., 1-8 meters for ceiling mounting).
    - Adjust to a higher setting for a longer detection range (e.g., 5-15 meters for wall mounting).
3. **TIME (Switching Duration):** This dial sets how long the light remains on after the last detected movement.
    - Adjust from a minimum of 10 seconds to a maximum of 12 minutes.
    - The light will turn off after the set time if no further motion is detected.

6. Maintenance

The ChiliTec Mini 360° HF Motion Detector requires minimal maintenance.

- **Cleaning:** Clean the surface of the detector with a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing.
- **Inspection:** Periodically check for any visible damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.

7. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	• No power supply. • LUX setting is too low (sensor thinks it's daytime). • SENS setting is too low (motion not detected). • Incorrect wiring.	• Check power connection. • Adjust LUX dial towards the sun icon. • Increase SENS setting. • Verify wiring according to Section 4.
Light stays on continuously.	• Continuous motion in detection area. • TIME setting is too long. • Sensor detecting false triggers (e.g., drafts, heat sources).	• Ensure no constant motion. • Decrease TIME setting. • Reduce SENS setting or reposition the detector if possible.
Light turns on unexpectedly.	• SENS setting is too high. • Interference from other HF devices.	• Decrease SENS setting. • Check for other devices that might cause interference.

8. Specifications

Model Number	22426
ASIN	B077SJBD6N
Dimensions (L x W x H)	62 x 38 x 25 mm
Weight	60 grams
Operating Voltage	230 V~ / 50 Hz
Power Range (Resistive Load)	5 - 1200 W
Power Range (Inductive/Capacitive Load)	5 - 300 W
Detection Angle	180° / 360°
Detection Range (Wall)	5 - 15 meters
Detection Range (Ceiling)	1 - 8 meters
Recommended Installation Height	1.5 - 3.5 meters
Twilight Setting (LUX)	3 - 2000 lux (adjustable)
Switching Duration (TIME)	10 seconds - 12 minutes (adjustable)
Standby Power Consumption	0.4 W
Operating Power Consumption	0.9 W
Operating Temperature Range	-10°C to +40°C

9. Warranty and Support

Specific warranty details are typically provided at the point of purchase or with the product packaging. Please retain your proof of purchase for warranty claims.
For technical support or further assistance, please contact your retailer or the manufacturer, ChiliTec GmbH.

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