Ledvion LV10040

Ledvion Surface-Mounted Motion Sensor LV10040 Instruction Manual

Model: LV10040

1. Introduction

Thank you for choosing the Ledvion Surface-Mounted Motion Sensor. This manual provides detailed instructions for the safe installation, operation, and maintenance of your device. Please read this manual carefully before installation and retain it for future reference.
This motion sensor is designed for indoor use, featuring a 360° detection range and adjustable settings for ambient light sensitivity and illumination time. Its IP20 rating makes it suitable for various indoor environments.

Image 1.1: Front view of the Ledvion Surface-Mounted Motion Sensor. This white, circular sensor is designed for discreet installation on ceilings or walls.

2. Safety Instructions

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local wiring regulations. Ensure the power supply is disconnected before installation or maintenance.
- **Indoor Use Only:** This product has an IP20 rating and is designed for indoor environments. Do not expose it to water, high humidity, or extreme temperatures.
- **Load Capacity:** Do not exceed the maximum load capacity: 800W for incandescent/halogen lamps, 400W for LED lamps.
- **Mounting:** Ensure the mounting surface is stable and can support the weight of the sensor.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.

3. Package Contents

Verify that all components are present in the package:

1x Ledvion Motion Sensor (Model LV10040)

1x Instruction Manual

2x Mounting Screws

2x Wall Plugs

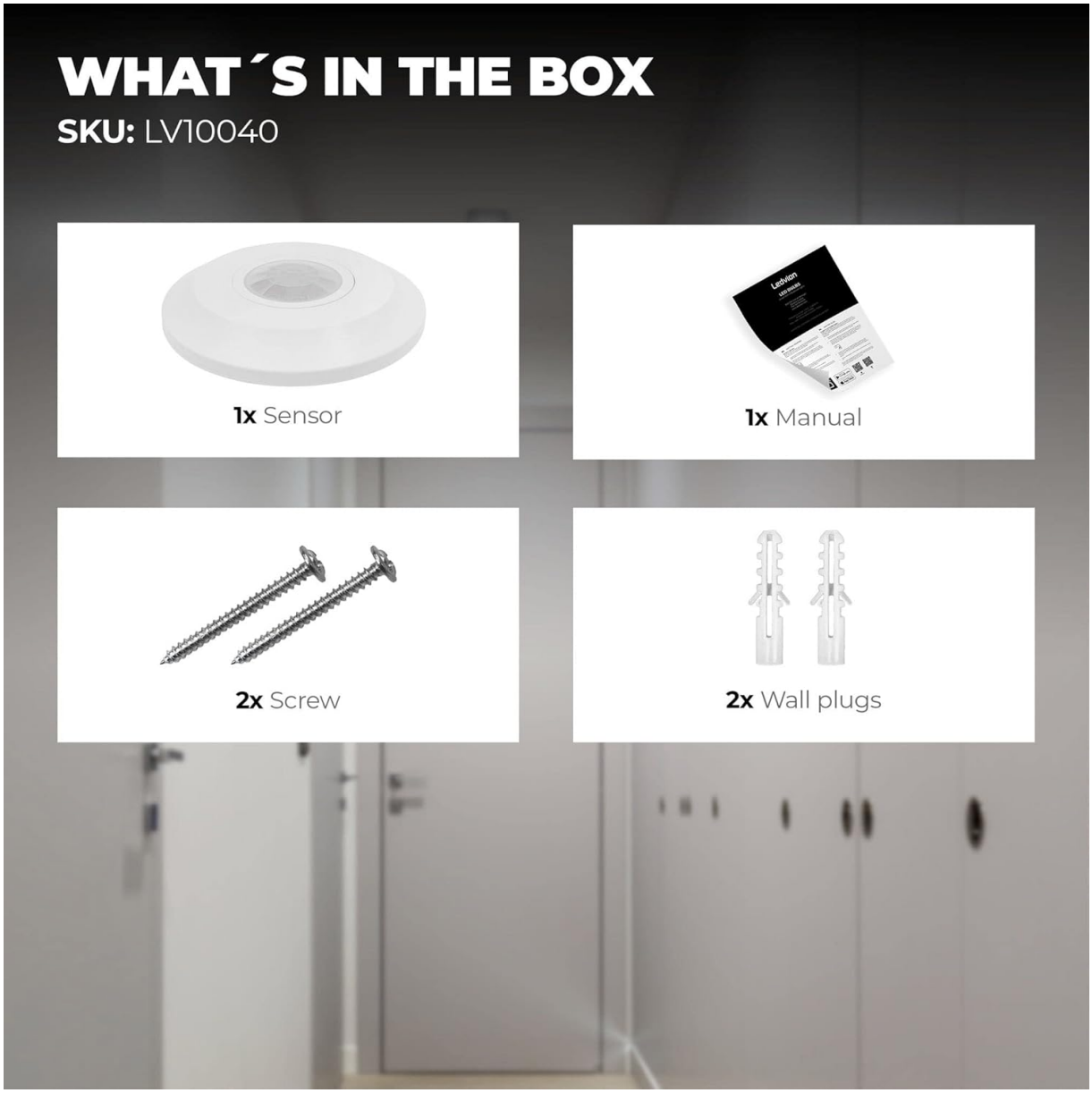

Image 3.1: The package includes one motion sensor, one instruction manual, two screws, and two wall plugs for

installation.

4. Specifications

Brand	Ledvion
Model	LV10040
Color	White
Power Source	Wired Electric
Product Weight	110 Grams
Detection Range	360°, up to 8 meters
Installation Height	2.2 - 4 meters
IP Rating	IP20 (Indoor Use)
Max Load (Incandescent/Halogen)	800W
Max Load (LED)	400W
Time Delay Adjustment	10 seconds to 30 minutes
Ambient Light Adjustment	3 - 2000 LUX
Dimensions (Diameter x Height)	100mm x 45mm

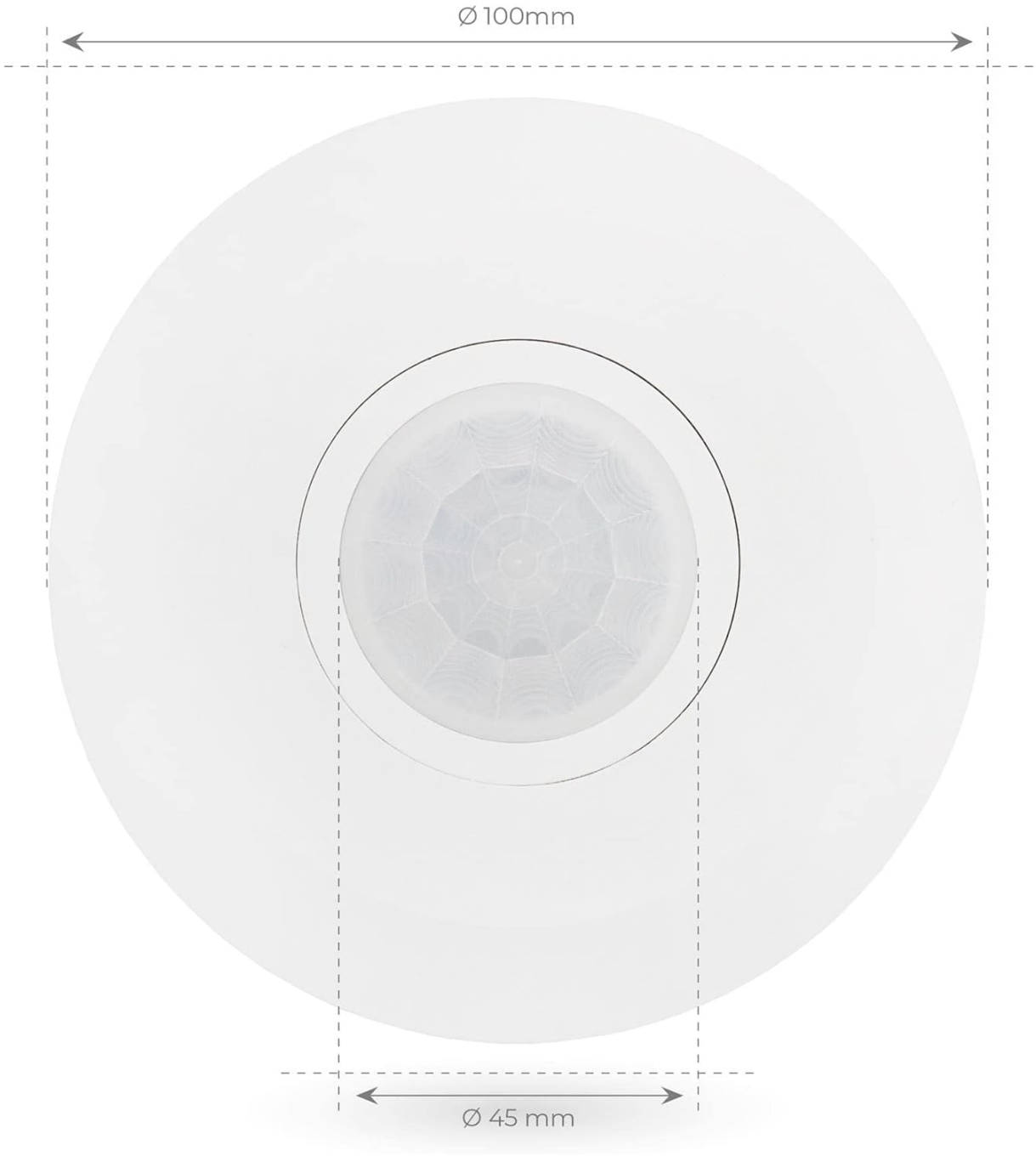

Image 4.1: Detailed dimensions of the motion sensor, showing a diameter of 100mm and a height of 45mm.

5. Setup and Installation

The Ledvion Motion Sensor is designed for surface mounting on ceilings or walls. Follow these steps for proper installation:

1. **Choose Location:** Select a suitable indoor location, free from direct sunlight, heat sources, or strong air currents that might cause false triggers. The optimal installation height is between 2.2 and 4 meters for a 360° detection range of up to 8 meters.
2. **Disconnect Power:** Before starting any electrical work, ensure the main power supply to the installation area is switched off at the circuit breaker.
3. **Mark Drilling Points:** Use the sensor's base as a template to mark the two drilling points on the ceiling or wall.
4. **Drill Holes:** Drill holes at the marked points and insert the provided wall plugs.
5. **Wiring:** Connect the electrical wires to the sensor's terminals according to the wiring diagram (refer

to the diagram on the sensor or packaging if available). Ensure correct polarity and secure connections.

6. **Mount the Sensor:** Secure the sensor to the wall or ceiling using the provided screws.
7. **Restore Power:** Once the sensor is securely mounted and wired, restore power at the circuit breaker.

Image 5.1: Example of the motion sensor installed on a wall, blending discreetly with the interior design.

Image 5.2: Another installation example, showing the sensor mounted on a wall in a staircase, providing illumination when motion is detected.

6. Operating Instructions and Settings

The Ledvion Motion Sensor features adjustable settings for time delay and ambient light sensitivity (LUX level).

6.1. Time Delay Adjustment

The time delay determines how long the connected light remains on after motion is last detected. This can be adjusted from a minimum of 10 seconds to a maximum of 30 minutes.

- **Minimum (10 seconds):** Ideal for high-traffic areas where lights are needed only briefly.
- **Maximum (30 minutes):** Suitable for areas where longer illumination is desired after motion.

6.2. Ambient Light (LUX) Adjustment

The LUX setting determines the ambient light level at which the sensor will activate. This can be adjusted from approximately 3 LUX (dark) to 2000 LUX (daylight).

- **Low LUX (e.g., 3 LUX):** The sensor will only activate the light when the environment is very dark.
- **High LUX (e.g., 2000 LUX):** The sensor will activate the light even in brighter conditions, effectively

functioning throughout the day.

Image 6.1: Close-up view of the sensor's adjustment dials for time delay and ambient light (LUX) settings.

6.3. Detection Range

The sensor offers a wide 360° detection range, covering an area of up to 8 meters. For optimal performance, ensure the sensor is installed at a height between 2.2 and 4 meters.

Image 6.2: Illustration of the sensor's 360-degree detection capability and an 8-meter detection range, with recommended installation height.

7. Maintenance

The Ledvion Motion Sensor requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Periodically wipe the sensor's surface with a soft, dry, lint-free cloth to remove dust and dirt. Do not use liquid cleaners, aerosols, or abrasive materials, as these can damage the sensor.
- **Inspection:** Regularly check for any visible damage to the sensor or its wiring. If any damage is observed, disconnect power immediately and consult a qualified electrician.
- **Environmental Conditions:** Ensure the sensor remains in an indoor environment, protected from moisture and extreme temperatures, as per its IP20 rating.

8. Troubleshooting

If you encounter issues with your Ledvion Motion Sensor, refer to the following common problems and solutions:

- **Light does not turn on when motion is detected:**
  - Check if the power supply is connected and active.
  - Verify the LUX setting. If it's set too low, the sensor might not activate in current ambient light conditions. Adjust it to a higher LUX level for testing.
  - Ensure the connected light bulb is functional.
  - Check wiring connections for looseness or errors.
- **Light stays on continuously or turns on without motion:**
  - Check for constant movement within the detection zone (e.g., pets, curtains moving in a draft).
  - Adjust the LUX setting. If it's set too high, the sensor might be activating even in bright conditions.
  - Ensure the sensor is not exposed to direct heat sources or strong air currents.
- **Light turns off too quickly or too slowly:**
  - Adjust the "TIME" delay setting on the sensor to your desired duration.
- **Reduced detection range:**
  - Ensure there are no obstructions blocking the sensor's view.
  - Verify the installation height is within the recommended 2.2 to 4 meters.
  - Clean the sensor lens if it is dusty or dirty.

If the problem persists after trying these solutions, please contact Ledvion customer support.

9. Warranty and Support

The Ledvion Motion Sensor comes with a **2-year warranty**, ensuring long-lasting usage and reliability. This warranty covers defects in materials and workmanship under normal use.

Image 9.1: The product is backed by a 2-year warranty, highlighting its durable construction.

For technical support, warranty claims, or further assistance, please refer to the contact information provided on the product packaging or the official Ledvion website.