TELEFUNKEN 305906TF

Telefunken 200° Motion Detector

MODEL: 305906TF - USER MANUAL

1. Introduction and Product Overview

Thank you for choosing the Telefunken 200° Motion Detector. This device is designed to automatically switch on lighting when movement is detected within its range, providing convenience and enhanced security. Its robust IP44 rating makes it suitable for outdoor use. Please read this manual carefully before installation and operation to ensure correct usage and optimal performance.

Figure 1: Front view of the Telefunken 200° Motion Detector.

2. Safety Instructions

- **Electrical Safety:** Installation and wiring must be performed by a qualified electrician in accordance with local electrical codes and regulations. Always disconnect power at the main circuit breaker before attempting any installation or maintenance.

- **Voltage:** Ensure the power supply voltage matches the requirements of the motion detector.

- **Load Capacity:** Do not exceed the maximum load capacity of 1000W for incandescent bulbs or 100W for LED bulbs. Overloading can cause damage to the device and create a fire hazard.

- **IP44 Rating:** This device is rated IP44, meaning it is protected against solid objects larger than 1mm and against splashing water from any direction. It is suitable for outdoor installation but should not be submerged in water.

- **Mounting:** Mount the device securely on a stable surface.

- **Temperature:** Do not install the device in areas with extreme temperatures or high humidity.

3. Package Contents

Please check that all components are present in the package:

- Telefunken 200° Motion Detector (1 unit)

- Mounting Screws and Wall Plugs (quantity may vary)

- User Manual (this document)

4. Setup and Installation

Proper installation is crucial for optimal performance. Refer to the following guidelines:

1. **Mounting Location:** Choose a location where the detector can cover the desired area without obstruction. Avoid pointing the sensor directly at heat sources, reflective surfaces, or areas with constant movement (e.g., busy roads) to prevent false triggers.

2. **Mounting Height:** The recommended mounting height is between 1.7 meters and 3 meters (approximately 5.6 to 9.8 feet) for effective detection.

3. **Detection Angle:** The sensor offers a 200° detection angle. Position the detector to maximize coverage of the intended area.

4. **Wiring:** Disconnect power before wiring. Connect the live, neutral, and load wires according to the wiring diagram provided with the product (typically found inside the housing or on a separate sheet). Ensure all connections are secure and insulated.

5. **Secure Mounting:** Use the provided screws and wall plugs to securely mount the detector to the wall or desired surface.

Figure 2: Illustration of the 200° detection area and recommended mounting angles.

Figure 3: Dimensions of the motion detector (120 mm x 95 mm).

5. Operating Instructions

Once installed and powered, the motion detector will operate automatically based on its settings. When movement is detected within its range and the ambient light level is below the set LUX threshold, the connected light will switch on. The light will remain on for the duration set by the TIME adjustment and will switch off if no further movement is detected.

6. Settings Adjustment

The motion detector features adjustable controls, typically located on the underside or front of the sensor dome, allowing you to customize its behavior:

- **TIME Adjustment (3 seconds to 30 minutes):** This dial controls how long the connected light remains on after motion is detected and no further motion is sensed. Turn the dial clockwise to increase the duration and counter-clockwise to decrease it.

- **LUX Adjustment (2 to 2000 lux):** This dial determines the ambient light level at which the sensor becomes active.

  - Set to a low LUX value (e.g., '2' or 'moon symbol') for the sensor to activate only in dark conditions.
  - Set to a high LUX value (e.g., '2000' or 'sun symbol') for the sensor to activate in both daylight and nighttime conditions.

- **Continuous Light Function:** This model includes a continuous light function. Consult the specific wiring diagram or product instructions for how to activate and deactivate this feature, as it typically involves a specific sequence of power cycling or a dedicated switch.

Figure 4: Side view of the motion detector, showing its profile.

7. Maintenance

The Telefunken motion detector requires minimal maintenance:

- **Cleaning:** Periodically wipe the sensor lens and housing with a soft, damp cloth to remove dust and dirt. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the device for any signs of damage, loose connections, or wear.
- **Obstructions:** Ensure that no objects are obstructing the sensor's field of view.

8. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	No power; LUX setting too high (daylight); faulty bulb; incorrect wiring.	Check power supply; adjust LUX setting to a lower value; replace bulb; verify wiring connections.
Light stays on continuously.	Continuous motion in detection area; TIME setting too long; continuous light function activated; faulty sensor.	Remove obstructions; adjust TIME setting to a shorter duration; deactivate continuous light function; contact support if sensor is faulty.
Light turns on without apparent motion.	Heat sources (e.g., exhaust vents); reflective surfaces; small animals; strong wind moving objects.	Reposition sensor away from heat sources or reflective objects; adjust sensitivity if available (this model does not specify sensitivity adjustment); clear detection area of moving objects.
Detection range is too short or inconsistent.	Incorrect mounting height; obstructions; sensor lens dirty.	Verify mounting height (1.7m-3m); clear obstructions; clean sensor lens.

9. Specifications

Feature	Specification
Model Number	305906TF
Detection Angle	200°
Detection Range	Max. 12 meters
Recommended Mounting Height	1.7 m - 3 m
Time Setting (Delay)	Adjustable from 3 seconds to 30 minutes
LUX Setting (Ambient Light)	Adjustable from 2 lux to 2000 lux
Max. Load (Incandescent)	1000 W
Max. Load (LED)	100 W
Protection Class	IP44

Feature	Specification
Color	White
Material	Plastic
Dimensions (L x D)	120 mm x 95 mm (approx. 12 x 9.5 x 6.8 cm)
Weight	200 Grams
Power Source	Wired Electric
Mounting Type	Wall Mount
Manufacturer	HVMM Licht GmbH & Co. KG

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

Manufacturer Contact: HVMM Licht GmbH & Co. KG