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ChiliTec 21565

ChiliTec Mini Indoor Motion Detector 21565 User Manual

Model: 21565

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ChiliTec Mini Indoor Motion Detector, Model 21565. Please read this manual carefully before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- **Electrical Safety:** Installation must be performed by a qualified electrician or competent person in accordance with local wiring regulations. Always disconnect power at the main circuit breaker before installation or maintenance.
- **Indoor Use Only:** This device is rated IP20 and is designed for indoor use only. Do not expose to moisture or extreme temperatures.
- **Voltage:** Operate only with 230V AC, 50Hz power supply.
- **Load Capacity:** Do not exceed the maximum load capacity of 800W for incandescent bulbs or 200W for LED/ESL lamps.
- **Children:** Keep out of reach of children.

3. PRODUCT OVERVIEW

The ChiliTec Mini Indoor Motion Detector (Model 21565) is a compact, discreet sensor designed for automatic light control in various indoor applications. Its small size allows for nearly invisible flush mounting.

Components:

- **Control Unit:** The main module containing the electronics and adjustment switches. Dimensions: 56 x 34 x 25 mm.
- **Sensor Head:** The small, round detection unit. Dimensions: 24 x Ø 15 mm, with an 18 cm connection

cable to the control unit.

- **Wiring:** 3-wire connection for power input and load output.



Image 1: Overview of the ChilliTec Mini Motion Detector, showing the control unit, sensor head, and connecting wires.

18cm Anschlusskabel

Einbau Ø 12mm

unauffällig



15cm Kabel
3-Draht

Image 2: Diagram illustrating the dimensions of the control unit and sensor, along with cable lengths for installation. The sensor head requires a Ø 12mm installation hole.

4. SPECIFICATIONS

Model Number	21565
Operating Voltage	230V AC, 50Hz
Standby Power Consumption	0.75W
Detection Angle	360°
Detection Range	Up to 6 meters (adjustable)
Installation Height	2 - 3 meters
Switching Capacity (Resistive Load)	10 - 800W
Switching Capacity (LED/ESL)	Max. 200W
Adjustable Switching Duration	5s, 30s, 1min, 3min, 5min, 8min
Adjustable Light Sensitivity	Yes (response time 0.8-1.8 ms)
IP Rating	IP20 (Indoor use only)

Control Unit Dimensions (L x W x H)	56 x 34 x 25 mm
Sensor Head Dimensions (H x Ø)	24 x Ø 15 mm
Sensor Cable Length	18 cm
Power Cable Length	15 cm (3-wire)

5. INSTALLATION

Important: Ensure power is disconnected at the main circuit breaker before beginning installation.

5.1 Mounting Location

- The sensor can be flush-mounted in ceilings, walls, or cabinets.
- Recommended installation height is between 2 and 3 meters for optimal detection.
- Avoid mounting near heat sources (e.g., vents, radiators) or in direct sunlight, as this can cause false triggers.
- Ensure the detection area is clear of obstructions.



Image 3: The small sensor head discreetly flush-mounted in a white ceiling or wall, demonstrating its inconspicuous design.

5.2 Wiring Instructions

The motion detector uses a 3-wire connection system. Refer to the diagram below for correct wiring.

1. Drill a hole of approximately Ø 12mm for the sensor head at the desired mounting location.
2. Insert the sensor head into the drilled hole.
3. Connect the control unit to the main power supply and the load (e.g., light fixture) as follows:
 - **Brown Wire (L):** Connect to Live (Phase) input (230V AC).
 - **Blue Wire (N):** Connect to Neutral input.
 - **Red Wire (L'):** Connect to the Live (Phase) input of your light fixture or other load. The Neutral of the load should connect directly to the main Neutral.

4. Ensure all connections are secure and insulated.
5. Place the control unit in a suitable flush-mounted box or cavity.

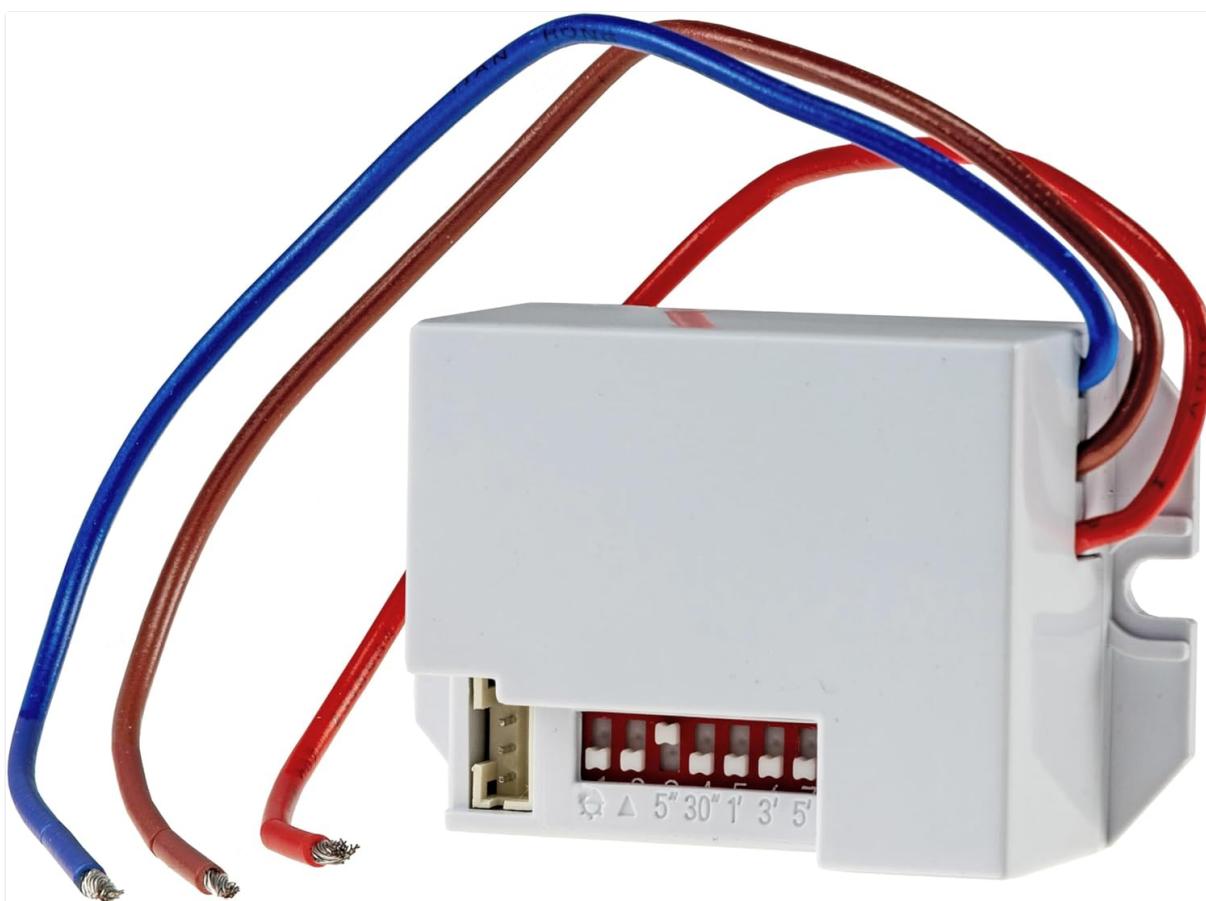


Image 4: The control unit showing the wiring terminals and dip switches for settings adjustment.

6. OPERATING INSTRUCTIONS AND SETTINGS

The motion detector features adjustable settings for light sensitivity and switching duration, controlled via dip switches on the control unit.

6.1 Light Sensitivity Adjustment

The light sensitivity determines at what ambient light level the motion detector will activate. This allows the light to only switch on when it is dark enough.

- Refer to the dip switches labeled with a sun/moon icon or similar.
- Adjust the switches to set the desired lux level. A higher setting means the light will activate even in brighter conditions, while a lower setting means it will only activate in darker conditions.
- The response time for light detection is 0.8-1.8 ms.

6.2 Switching Duration Adjustment

The switching duration (time delay) determines how long the connected light remains on after the last detected motion.

- Refer to the dip switches labeled with time values (e.g., 5s, 30s, 1', 3', 5', 8').
- Select the desired duration: 5 seconds, 30 seconds, 1 minute, 3 minutes, 5 minutes, or 8 minutes.

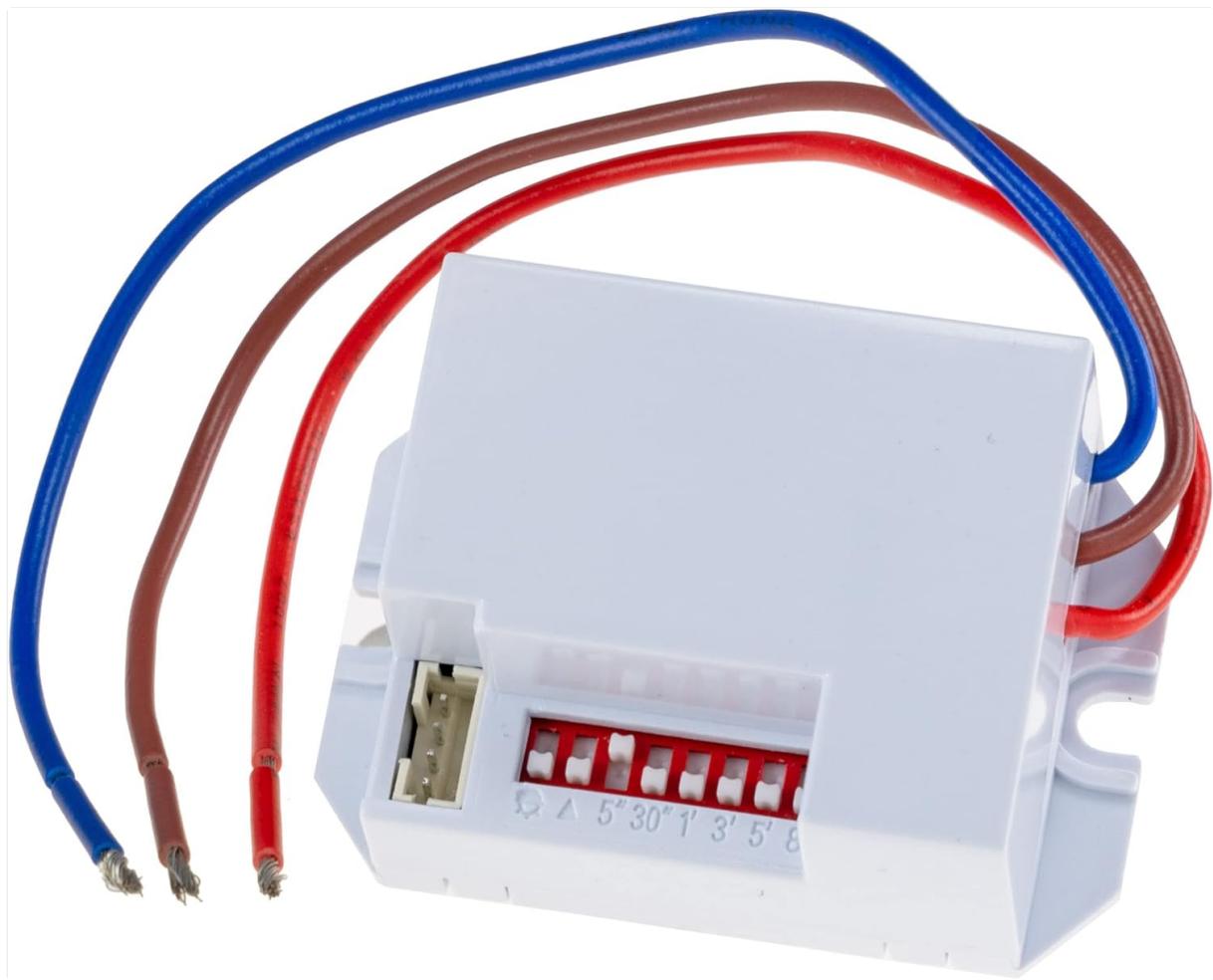


Image 5: Close-up of the control unit's dip switches, used to adjust the light sensitivity and the duration the connected light stays on after motion detection.

7. MAINTENANCE

- **Cleaning:** Clean the sensor head and control unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear.
- No user-serviceable parts inside. Do not attempt to open the control unit.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power; incorrect wiring; light sensitivity set too high (too bright); faulty bulb.	Check power supply; verify wiring connections; adjust light sensitivity setting; test/replace bulb.
Light stays on continuously.	Constant motion in detection area; faulty sensor; incorrect wiring.	Ensure no continuous motion; check sensor placement; verify wiring.
Light turns on/off randomly (false triggers).	Heat sources in detection area; drafts; sensor too sensitive; light changes.	Relocate sensor away from heat/drafts; adjust sensitivity setting; ensure stable ambient light.

Detection range is too short/long.	Incorrect installation height; sensitivity setting.	Verify installation height (2-3m); adjust sensitivity if possible (though not explicitly stated as adjustable for range, light sensitivity can affect perceived range).
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If problems persist after attempting these solutions, contact customer support or a qualified electrician.

9. WARRANTY AND SUPPORT

Specific warranty information is typically provided with your purchase documentation. For technical support or warranty claims, please contact your retailer or the manufacturer, ChiliTec GmbH.

Manufacturer: ChiliTec GmbH

Model: 21565

ASIN: B012ADAQIU