

ABB 6132-0-0342

ABB PM/a1.5.1.1 Mini Presence Detector User Manual

Model: **6132-0-0342** | Brand: **ABB**

1. IMPORTANT SAFETY INFORMATION

Warning: Electrical engineering work must only be carried out by qualified electricians or under their direct supervision. Always adhere to country-specific standards and regulations for electrical installations. Consult a local electrical installer if you are unsure.

- Devices with a connection value greater than 380 V/400 V require a high current connection and must only be connected by an approved electrician.
- For devices with a rated power exceeding 12 kW, approval from your network operator may be required (this applies to Germany; other countries may have different regulations).

This manual provides instructions for the safe and efficient use of the ABB PM/a1.5.1.1 Mini Presence Detector.

2. PRODUCT OVERVIEW

The ABB PM/a1.5.1.1 Mini Presence Detector is a KNX-compatible device designed for intelligent room automation. It functions as both a presence and motion detector, enabling efficient control of lighting based on occupancy and ambient brightness.



Image showing the compact design of the ABB PM/a1.5.1.1 Mini Presence Detector.

3. SETUP AND INSTALLATION

The ABB PM/a1.5.1.1 Mini Presence Detector is designed for surface mounting and is suitable for installation in suspended ceilings.

3.1 Mounting Guidelines

- **Mounting Type:** Surface-mounted.
- **Optimal Mounting Height:** 3 meters (9.84 feet) for best detection coverage.
- **Installation Height:** The device has an installation height of 16 mm.
- **Detection Field:** The detection field diameter on the floor is 8 meters.

3.2 Electrical Connection

- The detector features an integrated KNX bus coupler for seamless integration into KNX systems.
- Ensure all wiring is performed by a qualified electrician in accordance with local electrical codes and safety standards.

4. OPERATING INSTRUCTIONS

The presence detector offers versatile control options for lighting and other functions within a room.

4.1 Detection Capabilities

- **Function:** Operates as a presence detector, motion detector, or a combination of both.
- **Detection Range (at 2.5m mounting height):**
 - Seated persons: max. 5 meters
 - Walking persons: max. 6.5 meters
- **Detection Range (at 3m mounting height):**
 - Seated persons: max. 6.5 meters

- Walking persons: max. 8 meters
- **Detection Range (at 4m mounting height):**
 - Seated persons: max. 9 meters
 - Walking persons: max. 10.5 meters
- **Anti-creep protection/field monitoring:** Ensures comprehensive coverage and prevents blind spots.

4.2 Lighting Control

- **Channels:** The device features 2 independent channels for controlling different light strips or zones.
- **Brightness Adjustment:** Adjustable response brightness and a teach function for setting optimal brightness levels.
- **Constant Light Switch:** Functions as a constant light switch with up to 2 independent channels, allowing brightness-dependent switching of two light strips.
- **Control Logic:** Lighting can be controlled based on both room brightness and detected movement.

4.3 Operational Parameters

- **Minimum Duty Cycle:** 10 seconds.
- **Maximum Operating Time:** 1092 minutes.

5. MAINTENANCE

The ABB PM/a1.5.1.1 Mini Presence Detector is designed for long-term, maintenance-free operation. To ensure optimal performance:

- Keep the detector lens clean and free from dust or obstructions. Use a soft, dry cloth for cleaning.
- Do not use abrasive cleaners or solvents, as these may damage the device.
- There are no user-serviceable parts inside the device. Do not attempt to open or repair the detector yourself.

6. TROUBLESHOOTING

If you experience issues with your ABB PM/a1.5.1.1 Mini Presence Detector, consider the following common troubleshooting steps:

- **No Detection:**
 - Verify that the detector lens is clean and unobstructed.
 - Check the mounting height and ensure it is within the optimal range (3 meters) for the desired detection area.
 - Confirm that the KNX bus connection is secure and powered.
 - Review the configured detection parameters in your KNX system to ensure they match your requirements.
- **Incorrect Lighting Behavior:**
 - Check the configured brightness thresholds and teach function settings.
 - Ensure the correct channels are assigned to the respective light strips in the KNX programming.
 - Verify that there are no external light sources interfering with the detector's ambient light sensor.

- **Device Not Responding:**

- Ensure the power supply to the KNX bus is active.
- If the issue persists, consult a qualified electrician or ABB technical support.

For complex issues, always contact a qualified electrician or ABB customer support.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	ABB
Model Number	6132-0-0342
Part Number	6131/20-24-500
Power Source	Corded Electric
Mounting Type	Ceiling Mount (Surface-mounted)
Optimal Mounting Height	3 meters
Maximum Detection Range (Floor Diameter)	8 meters
Number of Channels	2
Minimum Duty Cycle	10 seconds
Maximum Operating Time	1092 minutes
Item Weight	4.6 ounces
Product Dimensions (L x W x H)	1.18 x 9.84 x 5.51 inches
Global Trade Identification Number (GTIN)	04011395185889

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official ABB website. ABB products are typically covered by a manufacturer's warranty against defects in materials and workmanship.

If you require technical assistance, have questions about installation, or need to report a fault, please contact ABB customer support:

- Visit the official ABB website for support resources and contact details.
- Refer to the contact information provided in your product packaging.

Always provide your product model number (6132-0-0342) and part number (6131/20-24-500) when contacting support for faster service.

