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Baomain AD16-22D

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Model: AD16-22D

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Baomain AD16-22D 22mm LED Indicator Pilot Light. These indicator lights are designed for use in telecommunication and electrical circuits to provide visual signals for various states, including operational status, accident alerts, and fault indications.

The AD16-22D series features LED lamps known for their long lifespan and low energy consumption. The concealed terminal design enhances safety and reliability during installation and operation.



Figure 1.1: A pack of ten Baomain AD16-22D 22mm LED Indicator Pilot Lights. These lights are commonly used in industrial and electrical panels to provide visual status indications.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the Baomain AD16-22D LED Indicator Pilot Light. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** Always disconnect power to the circuit before installation, maintenance, or troubleshooting.
- **Qualified Personnel:** Installation and wiring should only be performed by qualified electricians or technicians familiar with electrical systems and safety procedures.
- **Voltage Rating:** Ensure the supply voltage matches the indicator light's rating (220V AC). Connecting to an incorrect voltage can damage the device and pose a safety risk.
- **Proper Wiring:** Ensure all connections are secure and correctly insulated to prevent short circuits.
- **Environmental Conditions:** Do not expose the indicator light to excessive moisture, dust, or extreme temperatures beyond its specified operating conditions.

3. PRODUCT OVERVIEW

The Baomain AD16-22D is a compact LED indicator designed for panel mounting. It features a durable plastic body and a clear lens that diffuses the white LED light.



Figure 3.1: A detailed view of the Baomain AD16-22D indicator light, showing the branding, model number, LED type, voltage rating (AC220V), current rating ($\leq 20\text{mA}$), and compliance markings (CE, EN60947-5-1).



Figure 3.2: Side profile of the indicator light, highlighting the white lens and the black mounting base. The lens is designed to provide clear visibility of the illuminated signal.

Key Features:

- **LED Illumination:** Energy-efficient and long-lasting white LED.
- **Voltage:** Operates on 220V AC.
- **Mounting:** Standard 22mm panel mounting diameter.
- **Terminals:** Concealed screw terminals for secure wiring.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the indicator light.

1. **Prepare Panel:** Drill a 22mm (0.85 inch) diameter hole in the desired location on your control panel. Ensure the panel thickness is suitable for the indicator's mounting mechanism.
2. **Mount Indicator:** Insert the indicator light into the drilled hole from the front of the panel. Secure it in place using the provided locking nut on the rear side of the panel. Tighten the nut firmly but do not overtighten.
3. **Wiring:**
 - ***WARNING: Ensure power is disconnected before wiring.***
 - Identify the two screw terminals on the rear of the indicator light. These are typically marked X1 and X2 or similar.
 - Connect the 220V AC power supply wires to these terminals. The indicator light is non-polarized for AC applications, so the order of connection does not matter.
 - Use appropriate gauge wire for the application and ensure all connections are tight and secure.
4. **Verify Installation:** After wiring, double-check all connections and ensure the indicator is securely mounted.
5. **Apply Power:** Restore power to the circuit. The indicator light should illuminate when power is applied to its terminals.



Figure 4.1: Rear view of the indicator light, showing the two screw terminals for electrical connections. These terminals are designed for secure and reliable wiring.

5. OPERATING INSTRUCTIONS

The Baomain AD16-22D LED Indicator Pilot Light operates as a visual signal. When the rated 220V AC power is supplied to its terminals, the internal white LED will illuminate, providing a clear indication of the circuit's status.

- **Function:** The light serves as a direct visual feedback mechanism. Its illumination indicates an active state, while its off state indicates an inactive or fault condition, depending on how it is integrated into the control circuit.
- **Continuous Operation:** Designed for continuous operation within its specified voltage and current limits.

6. MAINTENANCE

The Baomain AD16-22D LED Indicator Pilot Light requires minimal maintenance due to its robust design and LED technology.

- **Cleaning:** Periodically clean the lens with a soft, dry cloth to ensure optimal visibility. Avoid using abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the indicator light for any signs of physical damage or loose connections.

Address any issues promptly.

- **LED Lifespan:** LEDs have a very long operational life, reducing the need for frequent replacement.
- **WARNING:** *Always disconnect power before performing any cleaning or inspection.*

7. TROUBLESHOOTING

If the indicator light does not function as expected, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Light does not illuminate.	No power to the circuit.	Verify power supply to the circuit.
	Incorrect voltage supply.	Ensure supply voltage is 220V AC.
	Loose or incorrect wiring.	Check all wiring connections for tightness and correctness.
	Damaged indicator light.	Replace the indicator light if all other checks fail.
Light flickers or is dim.	Unstable power supply.	Check power supply stability.
	Loose connection.	Tighten wiring connections.

If troubleshooting steps do not resolve the issue, contact a qualified technician or Baomain customer support.

8. SPECIFICATIONS

Detailed technical specifications for the Baomain AD16-22D LED Indicator Pilot Light.

Feature	Specification
Product Name	LED Indicator Light
Model Number	AD16-22D
Light Rating	220V AC, 20mA
Mounting Thread Diameter	22mm (0.85")
Overall Size (L*D)	50 x 28mm (2" x 1.1")
Light Color	White
Material	Copper (terminals), Plastic (body)
Light Source Type	LED
Item Weight	Approximately 6.4 ounces (for 10 units)
Package Dimensions	1.1 x 0.5 x 0.2 inches (individual unit, approximate)



Figure 8.1: Dimensional drawing illustrating the key measurements of the Baomain AD16-22D indicator light, including the 22mm mounting diameter, 50mm (2.00") length, and 21mm (0.82") base diameter.

9. WARRANTY AND SUPPORT

Baomain products are manufactured to high-quality standards. For specific warranty information, please refer to the purchase documentation or contact your retailer.

For technical support or inquiries, please visit the official Baomain website or contact their customer service department. When contacting support, please have your product model number (AD16-22D) and purchase details available.

Baomain Store Link: [Visit the Baomain Store on Amazon](#)

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