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DEWIN DEWD9L-R (2P 40A 30mA AC 230V)

DEWIN DEWD9L-R Automatic Reclosing Residual Current Device

Model: DEWD9L-R (2P 40A 30mA AC 230V)
Brand: DEWIN

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the DEWIN DEWD9L-R Automatic Reclosing Residual Current Device (RCCB). This smart circuit breaker is designed to automatically reclose when a leakage protection switch or MCB/RCCB accidentally trips, ensuring continuous power supply and enhanced safety.

2. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Always disconnect power before working on electrical circuits.

- Ensure the main power supply is disconnected before installation or any maintenance work.
- Verify all connections are secure and correctly wired according to the provided diagrams.
- Do not use this product in applications for which it is not designed.
- This product is **not applicable** to personal photovoltaic (solar) systems installed in homes.
- Regularly test the device as instructed in the Maintenance section.

3. Product Overview

The DEWIN DEWD9L-R is an advanced automatic reclosing residual current device featuring intelligent monitoring and protection capabilities. It integrates a manual/automatic selector and a dual mechanical/electronic closing function for enhanced flexibility and reliability.

3.1 Components and Features

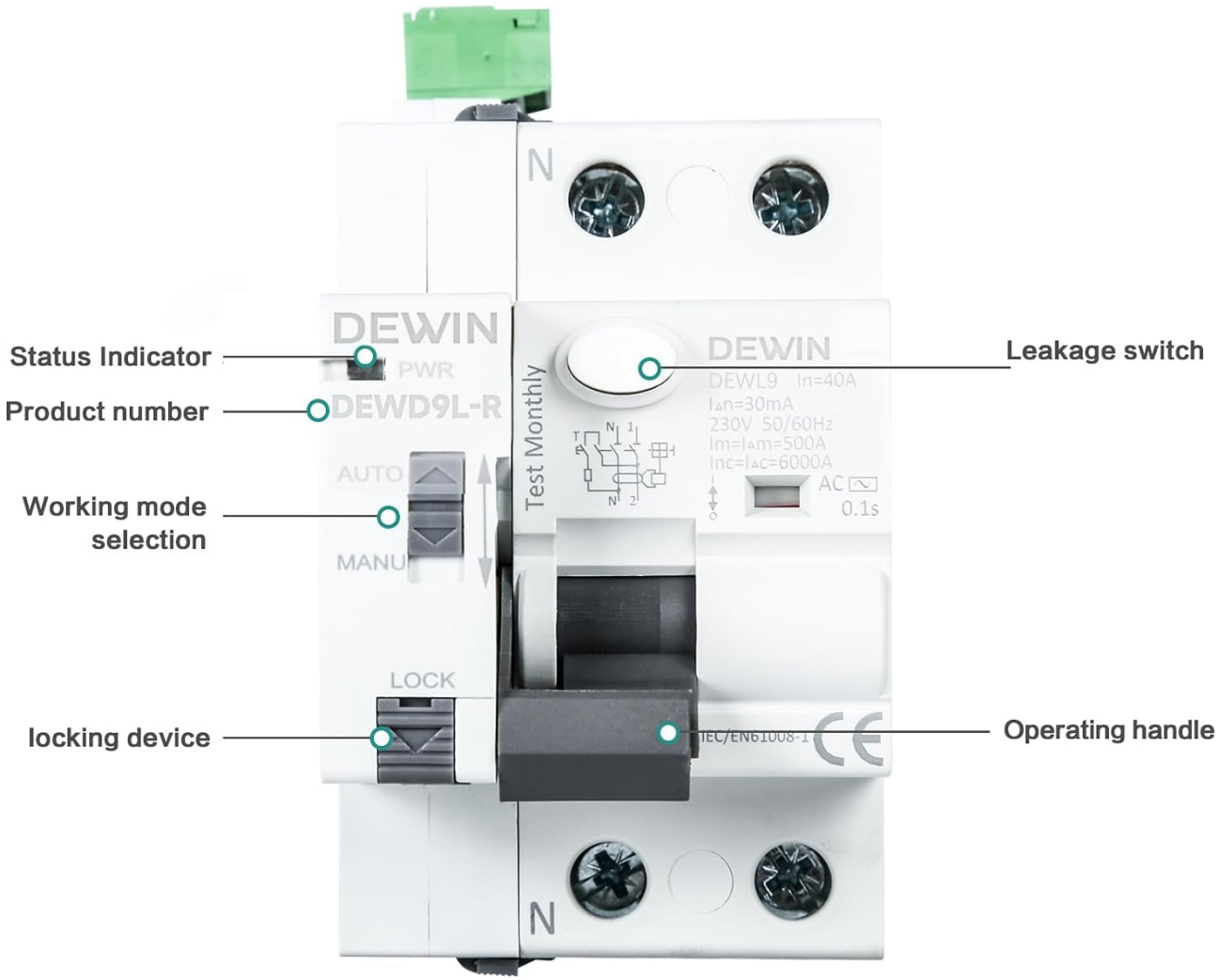


Figure 1: Front view of the DEWIN DEWD9L-R RCCB with key components labeled. These include the Status Indicator, Product Number (DEWD9L-R), Working Mode Selection switch (AUTO/MANU), Locking Device, Leakage Switch, and Operating Handle.

- **Dual Lock Function:** Features a manual/automatic selector and mechanical/electronic double closing for improved flexibility.
- **Built-in 3x Reclosing:** The device attempts to reclose up to three times. If continuous closing failure occurs within 15 minutes, it can send an alert via an auxiliary contact.
- **Remote Monitoring:** Equipped with an RS485 interface, allowing for remote monitoring and control of the RCCB.
- **LED Indication:** The operating status is clearly indicated by an LED light. The shaft transmission mode ensures stable and reliable operation.

4. Technical Specifications

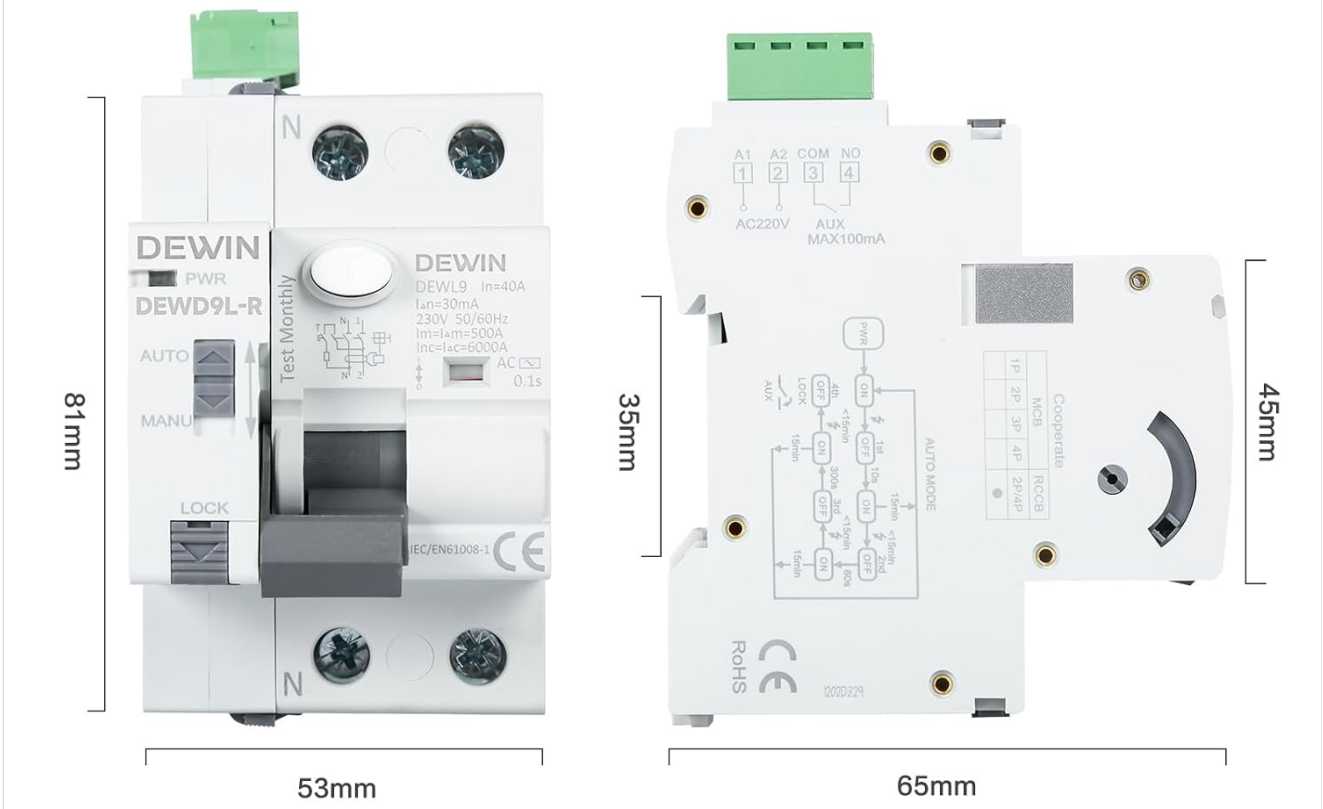


Figure 2: Dimensions and a summary of technical specifications for the DEWIN DEWD9L-R RCCB.

Table 1: DEWIN DEWD9L-R Technical Specifications

Parameter	Value
Model Number	DEWD9L-R (2P 40A 30mA AC 230V)
Material	PC + Copper
Number of Poles	2P
Rated Voltage	AC 220V
Rated Current	40 Ampere
Leakage Current	30 mA
Switch Type	Residual Current Device (RCCB)
Mounting Type	DIN Rail (35mm rail)

Parameter	Value
Action Time	< 1 second
Electrical Life	4000 times
Automatic Reclosing Attempts	3 times
Power Supply Voltage Tolerance	-10%, +10%
Indication	Red LED
Dimensions (L x W x H)	12.1 x 11.6 x 8.9 cm
Weight	340 grams
Country of Origin	China

5. Setup and Installation

The DEWIN DEWD9L-R is designed for DIN rail mounting. Follow these steps for proper installation:

1. **Power Disconnection:** Before beginning any installation, ensure that the main power supply to the circuit is completely disconnected at the source. Use appropriate lockout/tagout procedures.
2. **Mounting:** Securely mount the DEWD9L-R device onto a standard 35mm DIN rail within your electrical panel.
3. **Wiring:** Connect the live (L) and neutral (N) wires to the appropriate terminals as indicated on the device. Refer to the wiring diagram below for correct connections, including any auxiliary contacts if used.

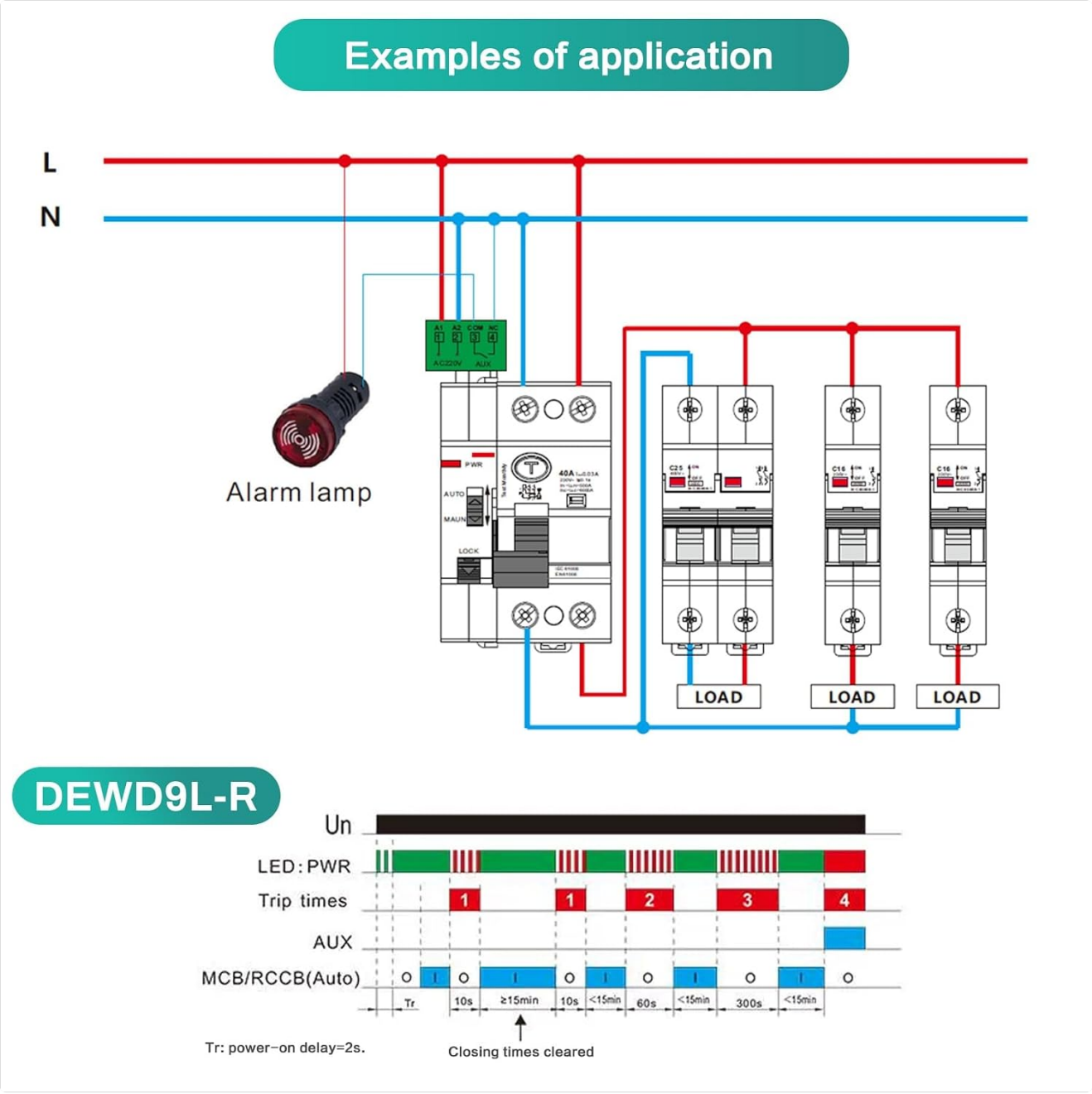


Figure 3: Example wiring diagram for the DEWIN DEWD9L-R RCCB, illustrating connections for main power, an optional alarm lamp, and downstream loads. Ensure all connections are tight and correct.

4. **Auxiliary Connections (Optional):** If utilizing the RS485 interface for remote monitoring or the auxiliary contact for warnings, connect these according to your system requirements.
5. **Verification:** Double-check all wiring for correctness and tightness. Ensure no bare wires are exposed.
6. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.

6. Operating Instructions

6.1 Working Modes

The DEWD9L-R offers two working modes: Automatic (AUTO) and Manual (MANU). Use the Working Mode Selection switch (refer to Figure 1) to select the desired mode.

- **AUTO Mode:** In this mode, the device will automatically attempt to reclose after a trip. It performs up to three reclosing attempts. If the fault persists after three attempts or for more than 15 minutes, the device will remain

open and can signal a warning via the auxiliary contact.

- **MANU Mode:** In this mode, the device will not automatically reclose after a trip. Manual intervention is required to reset the device.

6.2 Status Indication (LED)

The device features an LED indicator to show its operational status:

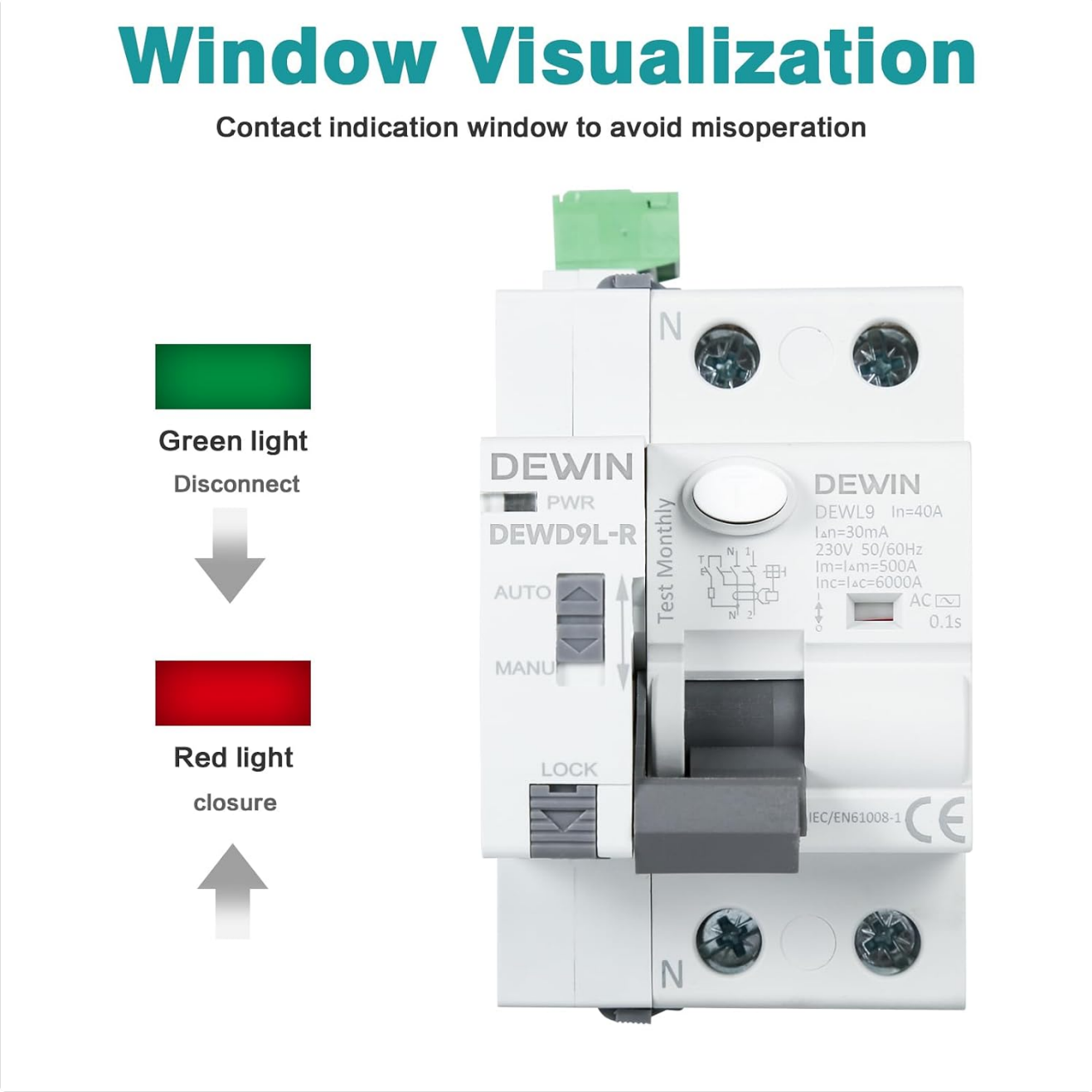


Figure 4: LED indicator states. A green light indicates disconnection, while a red light indicates closure (power is flowing).

- **Green Light:** Indicates the device is disconnected (open circuit).
- **Red Light:** Indicates the device is closed (power is flowing).

6.3 Automatic Reclosing Sequence

When in AUTO mode, the device follows a specific reclosing sequence after a trip:

- **First Attempt:** After a power-on delay of 2 seconds (Tr), the device attempts to reclose. If successful, the cycle clears. If not, it waits 10 seconds.

- **Second Attempt:** If the first attempt fails, it attempts to reclose again after 10 seconds. If successful, the cycle clears. If not, it waits 60 seconds.
- **Third Attempt:** If the second attempt fails, it attempts to reclose again after 60 seconds. If successful, the cycle clears. If not, it waits 300 seconds.
- **Final State:** If all three attempts fail, or if the fault persists for more than 15 minutes, the device will remain in the OFF state. Manual intervention is then required to clear the fault and reset the device.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your DEWIN DEWD9L-R RCCB.

- **Monthly Test:** Press the "Test Monthly" button (refer to Figure 1) at least once a month to verify the proper functioning of the leakage protection mechanism. The device should trip immediately. Reset the device after the test.
- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use abrasive cleaners or solvents.

8. Troubleshooting

If you encounter issues with your DEWIN DEWD9L-R RCCB, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device trips frequently.	Persistent electrical fault (e.g., ground fault, short circuit), overloaded circuit, or faulty appliance.	Identify and rectify the electrical fault. Disconnect appliances one by one to isolate the faulty one. Reduce load on the circuit. If the problem persists, consult a qualified electrician.
Device does not reclose in AUTO mode.	Persistent fault after 3 reclosing attempts, or fault duration exceeds 15 minutes. Device is in MANU mode.	Check for persistent faults and clear them. Ensure the mode selector is set to AUTO. Manually reset the device after clearing the fault.
LED indicator not working.	No power to the device, or internal fault.	Verify power supply to the device. If power is present and the LED is still off, the device may be faulty and require replacement.
Device does not trip when "Test Monthly" button is pressed.	Device malfunction.	The device is faulty and must be replaced immediately to ensure safety. Do not use the circuit until the device is replaced.

For issues not covered here, or if troubleshooting steps do not resolve the problem, contact a qualified electrician or DEWIN customer support.

9. Typical Applications

The DEWIN DEWD9L-R automatic reclosing circuit breaker is suitable for a wide range of applications where continuous power supply and enhanced protection are critical. Its intelligent features make it ideal for:



Figure 5: Illustrative examples of environments where the DEWIN DEWD9L-R RCCB can be effectively utilized, such as residential electrical grids, smart home systems, and new energy infrastructure.

- **Home Networks:** Ensuring uninterrupted power for residential electrical systems.
- **Smart Homes:** Integration into intelligent home automation systems for reliable power management.
- **New Energy Vehicle Charging Stations:** Providing protection and automatic reclosing for EV charging infrastructure.

Important Note: This product is not suitable for personal photovoltaic (solar) systems installed in homes.

10. Warranty and Support

DEWIN products are manufactured to high quality standards. For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or visit the official DEWIN website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact DEWIN customer support through their official channels. Please have your product model number (DEWD9L-R) and ASIN (B0CDGX3VJW) ready when contacting support.

Thank you for choosing DEWIN.

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