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- › [Legrand](#) /
- › [Legrand DPX3 160 Base with 4-Pole Differential Instruction Manual](#)

**Legrand CAJAS/ARM.DISTR.XL3**

# Legrand DPX3 160 Base with 4-Pole Differential Instruction Manual

Model: CAJAS/ARM.DISTR.XL3

## 1. INTRODUCTION

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This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of the Legrand DPX3 160 Base with 4-Pole Differential. This device is designed for integration into electrical distribution systems, providing protection and control. Please read this manual thoroughly before any installation or operation to ensure proper use and prevent potential hazards.

For additional information or technical support, please refer to the contact details provided in the Support section.

## 2. PRODUCT OVERVIEW

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The Legrand DPX3 160 Base with 4-Pole Differential is a critical component for electrical installations, offering robust protection. It is designed for use within Legrand XL3 distribution boards, ensuring compatibility and reliable performance.



**Figure 1:** Legrand DPX3 160 Base with 4-Pole Differential. This image displays the main unit, highlighting its robust construction and connection points for integration into an electrical distribution system.

Key features include:

- **DPX3 160 Base:** Provides the structural and electrical foundation for the differential unit.
- **4-Pole Differential:** Offers protection against earth leakage currents, enhancing safety in electrical circuits.
- **Compatibility:** Designed for seamless integration with Legrand XL3 distribution systems.

### 3. SAFETY INFORMATION

**WARNING: Electrical shock hazard. Installation and maintenance must be performed by qualified and authorized personnel only. Disconnect all power before working on this equipment.**

- Always follow local and national electrical codes and regulations.
- Ensure the power supply is completely disconnected and locked out before beginning any work.
- Use appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Verify correct wiring and connections to prevent damage to the unit or other components.
- Do not operate the device if it appears damaged or has been subjected to excessive moisture.

### 4. SETUP AND INSTALLATION

Installation of the Legrand DPX3 160 Base with 4-Pole Differential requires expertise in electrical systems. It should only be installed by a certified electrician or qualified professional.

#### 4.1 Pre-Installation Checks

1. Verify that the product model matches the requirements of your electrical system.
2. Inspect the unit for any signs of physical damage during shipping.
3. Ensure all necessary tools and additional components (e.g., wiring, mounting hardware) are available.

#### 4.2 Installation Steps

1. **Power Disconnection:** Completely disconnect and lock out the main power supply to the distribution

board.

2. **Mounting:** Securely mount the DPX3 160 Base within the designated Legrand XL3 distribution board enclosure using appropriate fasteners.
3. **Wiring:** Connect the incoming and outgoing electrical conductors to the specified terminals on the 4-pole differential unit. Ensure correct polarity and tight connections. Refer to the wiring diagram provided with the distribution board or specific product documentation for detailed connection points.
4. **Verification:** Double-check all connections for tightness and correct wiring according to the electrical schematic.
5. **Enclosure Closure:** Close and secure the distribution board enclosure.
6. **Power Restoration:** Carefully restore power to the distribution board and test the functionality of the differential unit.

## 5. OPERATING INSTRUCTIONS

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The Legrand DPX3 160 Base with 4-Pole Differential operates automatically to provide protection. There are no direct user operational controls beyond the standard circuit breaker functions it integrates with.

- **Normal Operation:** When correctly installed, the differential unit continuously monitors for earth leakage currents.
- **Tripping:** In the event of an earth fault exceeding the set threshold, the differential unit will trip, disconnecting the circuit to prevent electrical shock or fire.
- **Resetting:** After a trip, investigate and resolve the cause of the fault. Once the fault is cleared, the unit can typically be reset manually via the associated circuit breaker handle. Consult the specific circuit breaker manual for detailed reset procedures.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable operation of your Legrand DPX3 160 Base with 4-Pole Differential. All maintenance should be performed by qualified personnel.

### 6.1 Routine Checks (Annually)

- **Visual Inspection:** Check for any signs of overheating, discoloration, loose connections, or physical damage.
- **Connection Tightness:** Verify that all electrical connections are secure. Retighten if necessary, ensuring not to overtighten.
- **Functionality Test:** If equipped with a test button, activate it to ensure the differential unit trips correctly. Reset the unit after testing.

### 6.2 Cleaning

Ensure power is disconnected before cleaning. Use a dry, lint-free cloth to gently wipe the exterior of the unit. Do not use abrasive cleaners or solvents.

## 7. TROUBLESHOOTING

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This section provides guidance for common issues. For complex problems, contact Legrand technical support or a qualified electrician.

### 7.1 Unit Trips Frequently

- **Possible Cause:** Earth leakage fault in the circuit.
- **Solution:** Disconnect loads one by one to identify the faulty appliance or wiring section. Inspect wiring for damage or insulation breakdown.
- **Possible Cause:** Overload or short circuit (if integrated with a circuit breaker).
- **Solution:** Reduce the load on the circuit or check for short circuits.

## 7.2 Unit Does Not Trip During Test

- **Possible Cause:** Faulty differential unit.
- **Solution:** The unit may require replacement. Contact a qualified electrician for assessment.

## 7.3 No Power to Circuit After Reset

- **Possible Cause:** Persistent fault or incorrect reset procedure.
- **Solution:** Ensure the fault has been completely cleared. Follow the specific reset procedure for the integrated circuit breaker. If the issue persists, consult a qualified electrician.

## 8. SPECIFICATIONS

Attribute	Value
Brand	Legrand
Model Number	CAJAS/ARM.DISTR.XL3
Part Number	404631
Item Weight	18.35 pounds
Package Dimensions	26.38 x 12.01 x 10.24 inches
Item Package Quantity	1
ASIN	B00EXU71GY
Date First Available	August 14, 2023

## 9. WARRANTY INFORMATION

Legrand products are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. Specific warranty terms and conditions may vary by region and product type. Please refer to the official Legrand website or contact Legrand customer service for detailed warranty information applicable to your purchase.

*Retain your proof of purchase for warranty claims.*

## 10. SUPPORT

For technical assistance, product inquiries, or to report an issue, please contact Legrand customer support through their official channels:

- **Website:** Visit the official Legrand website for support resources, FAQs, and contact forms.
- **Phone:** Refer to the Legrand website for regional customer service telephone numbers.

- **Authorized Distributors:** Contact your local authorized Legrand distributor for sales and technical support.

When contacting support, please have your product model number (CAJAS/ARM.DISTR.XL3) and purchase details readily available.