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› OSRAM LEDriving Canbus Control Unit User Manual

OSRAM LEDCBCTRL102

OSRAM LEDriving Canbus Control Unit

Model: LEDCBCTRL102 (21 Watts)

Brand: OSRAM

INTRODUCTION

The OSRAM LEDriving Canbus Control Unit is designed to integrate LED retrofit lamps into a vehicle's electrical system without triggering lamp failure detection warnings. This unit acts as a bypass, ensuring compatibility and preventing error messages on the vehicle's board computer when upgrading to LED fog lights or other LED applications. It is suitable for most vehicle models equipped with a lamp failure detection system.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits or electrical shock.
- Ensure the control unit is installed in a location that is protected from excessive heat, moisture, and physical damage.
- Verify the wattage compatibility of the LEDriving Canbus Control Unit (21W) with your specific LED lamps to ensure proper function and prevent damage.
- If you are unsure about the installation process, consult a qualified automotive technician.
- Do not modify the control unit or its wiring. Unauthorized modifications can lead to malfunction or safety hazards.

PRODUCT OVERVIEW

The OSRAM LEDriving Canbus Control Unit (LEDCBCTRL102) is a compact device designed to resolve common error messages that occur when installing LED retrofit lamps in vehicles with sensitive lamp failure detection systems. Each unit is engineered for durability and reliable performance.

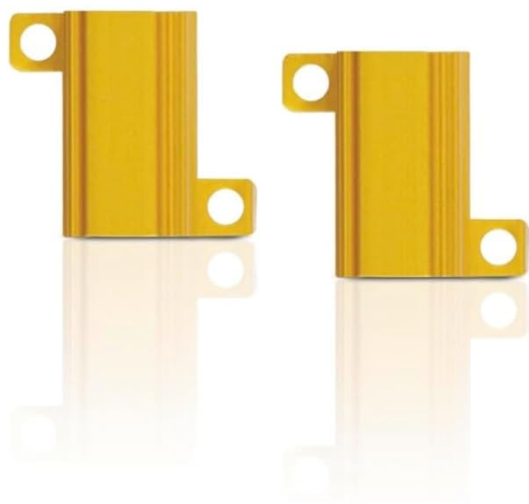


Figure 1: OSRAM LEDDriving Canbus Control Unit packaging and two individual units. The packaging highlights key features such as "NO ERRORS" and "FITS ALL CARS," along with the 21W Canbus control and 3-year OSRAM guarantee.



Figure 2: A single OSRAM LEDriving Canbus Control Unit, showing its compact, gold-colored aluminum housing and integrated wiring. The unit features mounting tabs for secure installation.

SETUP AND INSTALLATION

The LEDriving Canbus Control Unit is designed for easy installation. Follow these steps carefully:

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected. Identify the wiring for the lamp you intend to upgrade to LED.
2. **Identify Wires:** Locate the positive (+) and negative (-) wires for the lamp. You may need a multimeter to confirm polarity.
3. **Connect the Unit:** The Canbus Control Unit should be wired in parallel with the LED lamp. Connect one wire from the control unit to the positive (+) wire of the lamp circuit and the other wire from the control unit to the negative (-) wire (ground) of the lamp circuit. Ensure secure connections using appropriate connectors (e.g., crimp connectors, solder).
4. **Mounting:** Securely mount the control unit to a metal surface on the vehicle chassis. This is important for heat dissipation, as the unit can generate heat during operation. Use the integrated mounting tabs and appropriate screws or bolts.
5. **Test:** Reconnect the vehicle's battery and test the LED lamp. Verify that the lamp functions correctly and that no error

messages appear on the dashboard.

6. **Finalize:** Once confirmed, secure all wiring to prevent chafing or damage.

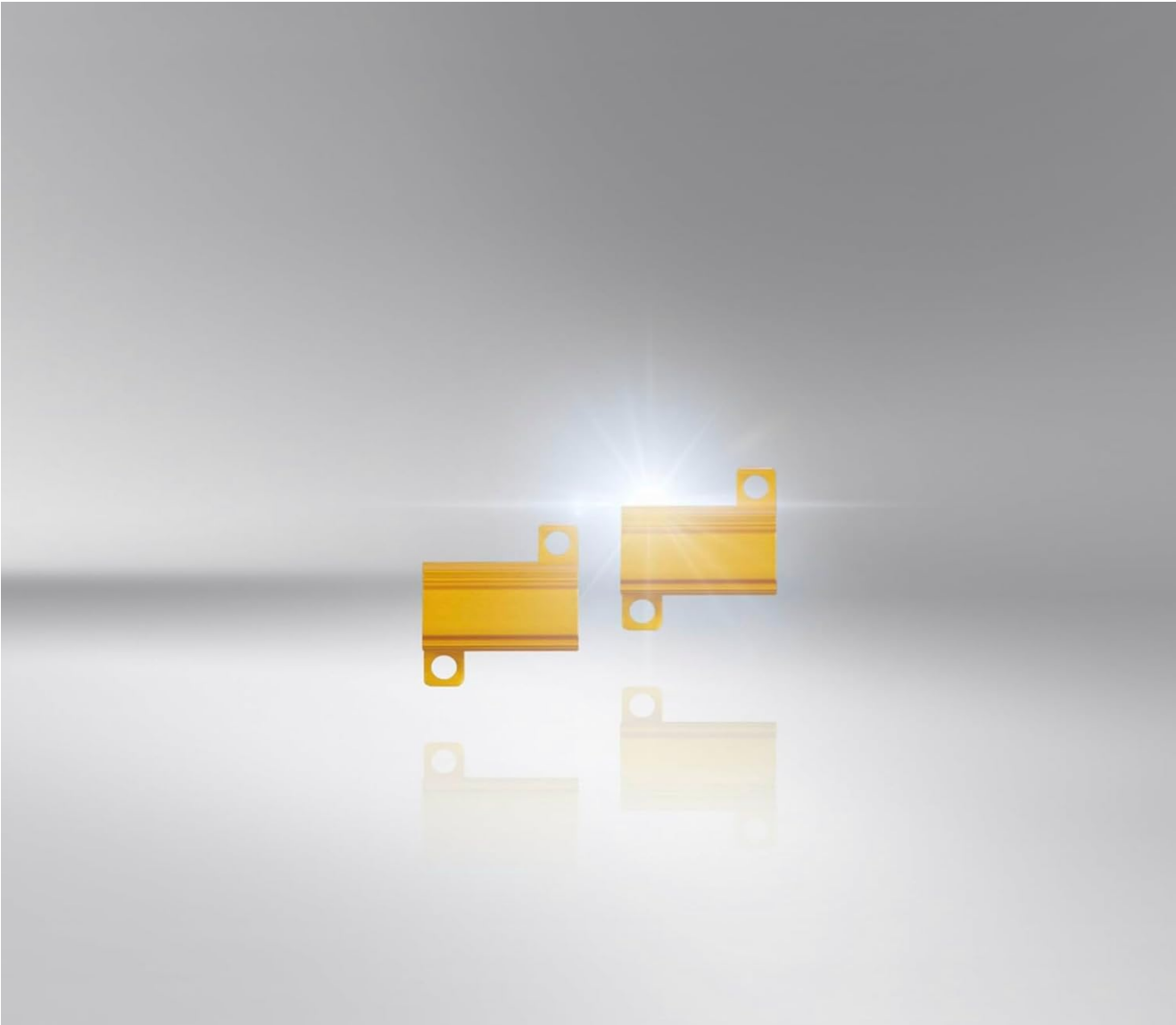


Figure 3: Two OSRAM LEDriving Canbus Control Units, illustrating their compact size and identical design, ready for installation. These units are typically installed in pairs for applications requiring two lamps (e.g., fog lights).

OPERATION

Once correctly installed, the OSRAM LEDriving Canbus Control Unit operates automatically. It provides the necessary electrical load to simulate a traditional incandescent bulb, thereby preventing the vehicle's lamp failure detection system from registering an error when an LED lamp is used. The unit functions passively, requiring no user interaction after installation.

MAINTENANCE

The OSRAM LEDriving Canbus Control Unit is designed to be maintenance-free. Periodically inspect the wiring connections to ensure they remain secure and free from corrosion or damage. Ensure the unit remains securely mounted to its heat-dissipating surface.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Error message still appears on dashboard.	Incorrect wiring, insufficient wattage, or incompatible vehicle system.	Check Wiring: Ensure the unit is correctly wired in parallel with the LED lamp, and connections are secure. Verify Wattage: Confirm the LED lamp's wattage is compatible with the 21W control unit. If the LED lamp draws significantly less power than expected by the vehicle, a higher wattage control unit might be needed (e.g., 50W version if available). Vehicle Compatibility: While designed for most vehicles, some highly sensitive or specific vehicle systems may still present issues. Consult an automotive electrician.
Control unit becomes excessively hot.	Improper mounting or continuous operation in high ambient temperatures.	Ensure Proper Mounting: The unit must be mounted to a metal surface that can dissipate heat effectively. Check Airflow: Ensure the mounting location allows for adequate airflow around the unit.
LED lamp flickers or does not light up.	Loose connection, incorrect polarity, or faulty LED lamp/control unit.	Inspect Connections: Re-check all wiring connections for looseness or corrosion. Verify Polarity: Ensure the LED lamp and control unit are connected with correct polarity. Test Components: Test the LED lamp directly without the control unit (if safe to do so) to rule out a faulty lamp. If the problem persists, the control unit may be faulty.

SPECIFICATIONS

Attribute	Value
Brand	OSRAM
Model	LEDCBCTRL102 (CANBUS CONTROL)
Product Type	LEDDriving Canbus Control Unit
Nominal Power	21.00 W
Power Input	25.20 W
Power Input Tolerance	± 20%
Diameter	20.0 mm
Length	27.0 mm
Product Weight	26.00 g (0.704 ounces)
Lifespan Tc	2000 h
Specific Uses	Accessories for retrofit LEDs, Lamp failure detection bypass
Vehicle Service Type	Car

WARRANTY AND SUPPORT

OSRAM offers a **3-year warranty** for the LEDDriving Canbus Control Unit (LEDCBCTRL102). This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.



Figure 4: OSRAM 3-year warranty emblem, indicating the product's warranty period.

For technical support, warranty claims, or further inquiries, please visit the official OSRAM website or contact their customer service department. Refer to the product packaging for specific contact details or visit [the OSRAM Store on Amazon](#).

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