KLS JCR 12V100WH10/5 OP-91641

KLS JCR 12V100WH10/5 OP-91641 12V100W Light Bulb User Manual

Model: JCR 12V100WH10/5 OP-91641

Introduction

This user manual provides essential information for the safe and effective use of the KLS JCR 12V100WH10/5 OP-91641 12V100W light bulb. This specialized halogen lamp is designed for precision applications, particularly with KEYENCE 3D Laser Microscopes. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of the product.

Product Overview

The KLS JCR 12V100WH10/5 OP-91641 is a high-quality 12V, 100W halogen light bulb manufactured by Kahoku Lighting Solutions (KLS) in Japan. It features a GZ6.35 base and an MR16 shape, providing a warm white light with a color temperature of 3100K and a brightness of 1000 lumens. With an average life of 1000 hours, it is engineered for reliable performance in demanding environments such as 3D laser microscopy.



An image showing the KLS JCR 12V100WH10/5 light bulb next to its white and blue packaging box. The box displays 'KLS', 'JCR', and '12V100WH10/5'. The bulb itself is a silver-colored MR16 type with two pins at the base.

Setup and Installation

Safety Precautions:

- Always disconnect power to the fixture before installing or replacing the bulb.
- Allow the old bulb to cool completely before handling. Halogen bulbs can become very hot during operation.
- Avoid touching the glass part of the new bulb directly with bare hands. Oils from your skin can create hot spots, leading to premature failure. Use a clean cloth or gloves.
- Ensure the fixture is compatible with a 12V, 100W GZ6.35 MR16 bulb.

Installation Steps:

1. Turn off and unplug the device or microscope where the bulb will be installed.
2. Carefully remove the old bulb from its socket.
3. Holding the new KLS JCR bulb by its ceramic base or with a clean cloth, align the two pins of the GZ6.35 base with the corresponding holes in the socket.
4. Gently push the bulb into the socket until it is firmly seated. Do not force it.
5. Once installed, reconnect power and test the bulb.

Operating Instructions

The KLS JCR 12V100WH10/5 OP-91641 light bulb is designed for immediate illumination upon power application. It is

primarily used as a light source for KEYENCE 3D Laser Microscopes and similar precision optical instruments.

- **Power On/Off:** Control the bulb's operation through the power switch or control system of your microscope or compatible device.
- **Brightness:** The bulb provides a consistent 1000 lumens brightness. If your equipment has dimming capabilities, ensure it is compatible with halogen lamps and the bulb's specifications.
- **Warm-up Time:** Halogen bulbs provide instant full brightness upon activation.
- **Operating Environment:** Use the bulb within the recommended temperature and humidity ranges for your specific microscope or fixture to ensure optimal performance and lifespan.

Maintenance

Proper maintenance can extend the life and performance of your KLS JCR light bulb.

- **Cleaning:** If the bulb's glass surface becomes dirty, gently wipe it with a clean, lint-free cloth moistened with isopropyl alcohol. Ensure the bulb is cool and disconnected from power before cleaning. Do not use abrasive cleaners.
- **Handling:** Always handle the bulb by its base or with gloves to prevent skin oils from transferring to the glass.
- **Replacement:** The average lifespan of this bulb is 1000 hours. Consider replacing the bulb proactively if it is critical for your application, especially as it approaches its rated life, to avoid unexpected downtime.
- **Storage:** Store spare bulbs in their original packaging in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

If you encounter issues with your KLS JCR light bulb, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Bulb does not light up.	No power to the fixture, loose connection, or bulb has reached end of life.	Check power supply and connections. Ensure the bulb is fully seated in the socket. Replace the bulb if it has exceeded its rated lifespan or appears visibly damaged.
Bulb is dim or flickers.	Low voltage, poor connection, or bulb nearing end of life.	Verify correct voltage supply. Check for secure connection in the socket. Replace the bulb if symptoms persist.
Bulb burns out quickly.	Over-voltage, frequent on/off cycling, or touching the glass during installation.	Ensure the fixture provides the correct 12V. Minimize frequent switching. Always handle the bulb with gloves or a clean cloth during installation.

If troubleshooting steps do not resolve the issue, consult with a qualified technician or contact the product supplier.

Specifications

Brand	KLS (Kahoku Lighting Solutions)
Model Name	JCR 12V100WH10/5 OP-91641
Light Type	Halogen (MR16)
Voltage	12 Volts
Wattage	100 Watts
Bulb Base	GZ6.35
Bulb Shape Size	MR16
Color Temperature	3100 Kelvin (Warm White)
Brightness	1000 Lumens
Average Life	1000 Hours
Working Distance	32mm
Material	Glass
Manufacturer	KLS
Origin	Made In Japan
UPC	639713312393

Warranty and Support

For specific warranty information regarding your KLS JCR 12V100WH10/5 OP-91641 light bulb, please refer to the documentation provided at the time of purchase or contact your authorized KLS dealer or the original seller. Warranty terms typically cover manufacturing defects.
For technical support or further assistance, please reach out to the retailer from whom you purchased the product or visit the official KLS (Kahoku Lighting Solutions) website for contact details.

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Example: How do I reset this device or fix this error?

Details

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