

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [OSRAM](#) /

› [OSRAM Sylvania QHE3x32T8/UNV-PSN-SC Fluorescent Lamp Ballast Instruction Manual](#)

## OSRAM QHE3x32T8/UNV-PSN-SC

# OSRAM Sylvania QHE3x32T8/UNV-PSN-SC Fluorescent Lamp Ballast Instruction Manual

Model: QHE3x32T8/UNV-PSN-SC | Part Number: 51413

## INTRODUCTION

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your OSRAM Sylvania QHE3x32T8/UNV-PSN-SC Fluorescent Lamp Ballast. Please read this manual thoroughly before installation and retain it for future reference. This ballast is designed for use with 3-lamp, 32W T8 fluorescent lamps and operates on 120-277V, 50/60Hz electrical systems.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING: Risk of electric shock. Disconnect power before installation or servicing.**

- Installation must be performed by a qualified electrician in accordance with the National Electrical Code and local codes and ordinances.
- Ensure the supply voltage is compatible with the ballast's operating voltage (120-277V).
- Do not install damaged products. Inspect the ballast for damage before installation.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- This ballast is designed for indoor use in dry locations unless otherwise specified.
- Ground the ballast case properly to prevent electrical hazards.

## PRODUCT OVERVIEW

The OSRAM Sylvania QHE3x32T8/UNV-PSN-SC is a high-efficiency, programmed rapid start electronic ballast designed for optimal performance with T8 fluorescent lamps. It features universal voltage input and lamp striation control for consistent light output.

### Key Features:

- Programmed Rapid Start T8 Electronic Ballast

- Universal Voltage: 120-277V, 50/60Hz
- High-Efficiency - Type CC
- High Power Factor
- Lamp Striation Control
- Sound Rated A
- Inherent Thermal Protection
- UL Listed Class P, Type 1 Outdoor, Type CC
- Complies with FCC 47 CFR Part 18, Non-Consumer
- No PCBs



Image 1: Top view of the OSRAM Sylvania QHE3x32T8/UNV-PSN-SC ballast, showing product labeling and specifications.

## INSTALLATION AND WIRING

Before beginning installation, ensure all power to the fixture is disconnected at the circuit breaker. Follow the wiring diagram carefully for proper and safe connection.

### Wiring Diagram:



Image 2: Detailed wiring diagram for the OSRAM Sylvania QHE3x32T8/UNV-PSN-SC ballast, illustrating connections for input power and lamp outputs.

### Wiring Instructions:

1. **Input Power:** Connect the black wire to the LINE (L) input and the white wire to the NEUTRAL (N) input. Ensure the ground wire is securely connected to the ballast case and fixture ground.
2. **Lamp Connections:**
  - Connect the blue/white wires to the first lamp.
  - Connect the blue wires to the second lamp.
  - Connect the red wires to the third lamp.
  - Connect the yellow wires to the common lamp terminals as indicated in the diagram.

3. **Mounting:** Securely mount the ballast within the fixture using appropriate fasteners. Ensure adequate ventilation around the ballast.
4. **Voltage Compatibility:** This ballast is designed for universal voltage operation (120V or 277V). Verify your supply voltage matches.

## Lamp Compatibility:

This ballast is compatible with the following T8 fluorescent lamp configurations:

Lamp Types	Line Current (120V)	Line Current (277V)	Min. Start Temp
3 x FO32T8	0.69A	0.29A	-20°F/-29°C
3 x FO25T8	0.53A	0.23A	-20°F/-29°C
3 x FO17T8	0.36A	0.16A	-20°F/-29°C
2 x FO40T8	0.63A	0.27A	0°F/-18°C
2 x FO32T8	0.51A	0.23A	-20°F/-29°C

Also suitable for "U" bend and SS equivalents.

## OPERATING INSTRUCTIONS

Once properly installed and wired, the OSRAM Sylvania QHE3x32T8/UNV-PSN-SC ballast operates automatically. Upon applying power, the ballast will initiate the programmed rapid start sequence to ignite the connected fluorescent lamps. This ensures quick and reliable lamp ignition and extends lamp life.

- Ensure all lamps are correctly seated in their sockets before applying power.
- The ballast is designed for continuous operation within its specified temperature and voltage ranges.
- No user adjustments are required for normal operation.

## MAINTENANCE

The OSRAM Sylvania QHE3x32T8/UNV-PSN-SC ballast is designed for long-term, maintenance-free operation. However, periodic inspection of the lighting fixture and its components is recommended.

- **Power Disconnection:** Always disconnect power at the circuit breaker before performing any inspection or maintenance.
- **Cleaning:** Keep the ballast and fixture free from dust and debris to ensure proper heat dissipation. Use a dry, lint-free cloth for cleaning.
- **Wiring Inspection:** Periodically check wiring connections for tightness and signs of wear or damage.
- **Lamp Replacement:** Replace lamps with compatible T8 fluorescent lamps as specified in the "Lamp Compatibility" section. Ensure power is off during lamp replacement.
- **Ballast Replacement:** If the ballast fails, replace it with an identical OSRAM Sylvania QHE3x32T8/UNV-PSN-SC model or an approved equivalent.

## TROUBLESHOOTING

If your lighting fixture is not operating correctly, consult the following troubleshooting guide. Always disconnect power before attempting any inspection or repair.

Problem	Possible Cause	Solution
Lamps do not light up	No power to the fixture Incorrect wiring Faulty lamps Faulty ballast	Check circuit breaker and wall switch. Verify wiring against the diagram. Replace lamps with known good ones. Replace ballast if lamps are good and wiring is correct.
Lamps flicker or are dim	Loose lamp connections Incorrect lamp type Low input voltage Aging lamps	Ensure lamps are securely seated. Verify lamps are compatible T8 types. Check supply voltage. Replace lamps.
Ballast hums excessively	Loose mounting Incorrect voltage Internal ballast issue	Tighten mounting screws. Verify input voltage. Replace ballast if hum persists and is excessive.

## TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	QHE3x32T8/UNV-PSN-SC
Part Number	51413
Brand	OSRAM (Manufacturer: Sylvania)
Input Voltage	120-277V AC
Frequency	50/60Hz
Lamp Type	T8 Fluorescent (e.g., F32T8, FO32T8, F25T8, F17T8, F40T8)
Number of Lamps	3 (or 2 for F40T8/F32T8)
Wattage (per lamp)	32W (for F32T8)
Start Method	Programmed Rapid Start
Efficiency	High-Efficiency - Type CC
Power Factor	High Power Factor
Item Weight	1.32 pounds (approx. 0.6 kg)
Product Dimensions (L x W x H)	9.5 x 1.68 x 1.18 inches (approx. 24.1 x 4.3 x 3.0 cm)
Min. Start Temperature	-20°F (-29°C) for most T8 lamps; 0°F (-18°C) for 2xFO40T8
Certifications	UL Listed, Type CC, FCC 47 CFR Part 18, RoHS compliant

## WARRANTY INFORMATION

OSRAM products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the QUICKTRONIC® QHE3x32T8/UNV-PSN-SC ballast, please refer to the official OSRAM/Sylvania warranty documentation provided with your purchase or visit the OSRAM website. Typically, electronic ballasts come with a limited warranty

covering defects in materials and workmanship under normal use.

*Note: The "QUICK60+" System Warranty mentioned on the product label refers to a system warranty when used with specific OSRAM lamps. Consult OSRAM for details.*

## CUSTOMER SUPPORT

---

For technical assistance, product inquiries, or support, please contact OSRAM/Sylvania customer service.

**Technical Assistance Hotline:** 1-800-LIGHTBULB (as indicated on product label)

You may also visit the official OSRAM website for additional resources and contact options.

