

QUICKTRONIC® MH Electronic Metal Halide Systems



Normal Ballast Factor

Professional Series

QT MH

Lamp / Ballast Guide

QTP 1x15MH SM UNV
M186, C186

QTP 1x20MH SM UNV
M156, C156

QTP 1x39MH SM UNV
M130, C130

SYLVANIA QUICKTRONIC MH electronic HID (eHID) ballasts feature a state of the art electronic design to deliver performance levels unattainable with standard magnetic metal halide ballast systems.

Small and efficient, QUICKTRONIC MH ballasts operate silently and provide energy savings up to 15% compared to magnetic ballasts.

New smaller sizes allow for more flexible fixture designs and applications while maintaining the features and system advantages of the standard size ballast.

The Super Mini is 70% smaller than the standard sized can. Installation is simplified by our single-piece ballasts that incorporate the ballast, capacitor, ignitor and mounting brackets of conventional systems. Two lightweight mounting styles allow for easy assembly in any fixture application.

QUICKTRONIC MH eHID ballasts are RoHS compliant and feature lead-free solder, printed circuit boards and manufacturing process.

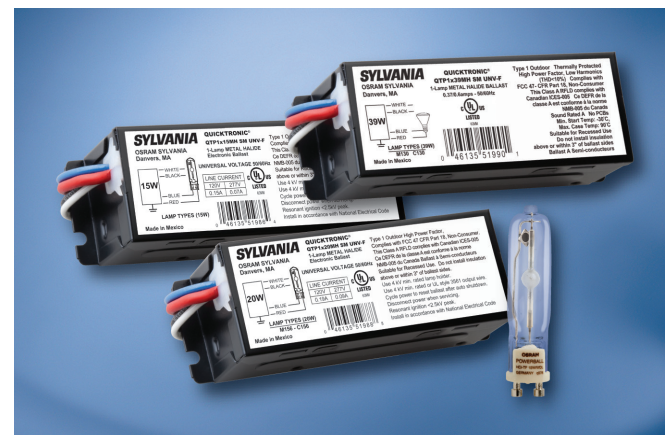
System Information

SYLVANIA QUICKTRONIC MH ballasts and SYLVANIA METALARC® POWERBALL® CERAMIC lamps are perfectly matched to provide optimal system performance.

Our electronically controlled system delivers several advantages over conventional components, including improved lumen maintenance and extended photometric life.

The superior power regulation design produces consistently brilliant light output and color throughout the life of the lamp. This circuitry also provides constant light output during periods of fluctuating supply voltage.

All QUICKTRONIC MH electronic HID (eHID) ballasts are equipped with an end-of-life shut down function. This prevents continuous starting after lamps extinguish which may cause permanent damage to the ballast.



Setting the standard for quality, QUICKTRONIC MH systems are covered by the QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

Key System Features

- Constant power regulation
- Universal input voltage
- High power factor
- Low harmonic distortion
- Small size and lightweight
- 85°C case temperature
- UL, FCC
- End-of-life shut down
- Internal IDTP (Insulation Detection Thermal Protector)
- QUICK 60+® warranty
- RoHS compliant
- Lead-free solder, printed circuit board and manufacturing process

Application Information

SYLVANIA QUICKTRONIC MH ballasts

are ideally suited for:

- Track lighting
- Downlighting
- Landscape lighting
- Retail
- Hospitality
- Institutional
- Commercial

Enclosure Styles

F = Feet Mount for track light fixtures
(All leads exit side of ballast, as shown on next page.)

J = J-Box Mount with PEM studs for recessed downlight fixtures
(All leads exit middle/bottom of ballast, as shown on next page.)

All QUICKTRONIC universal input voltage eHID ballasts are equipped with an internal IDTP (Insulation Detection Thermal Protector). This is a precision temperature gauge that will shut the ballast down at the maximum case temperature to prevent internal damage of electronic components. The internal

thermal protection feature affords an original equipment manufacturer (OEM) the ability to remove all external thermal protection devices. In order to maximize the benefits of this unique feature the ballast must be properly installed. (See "installation notes" for detail).

SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

Electronic Metal Halide Systems Universal Voltage (120-277V)



Item Number	OSRAM SYLVANIA Description	Input Voltage (VAC)	Input Current (AMPS)	Lamp Type ¹	Rated Lumens (lm)	No. of Lamps	Internal IDTP ²	Ballast Factor (BF)	System Lumens	Input Wattage (W)	System Efficacy (lm/W)
51991	QTP1x15MH SM UNV J	120-277	0.15/0.07	15W T4	1200	1	Yes	1.0	1200	17.5	68.6
51986	QTP1x15MH SM UNV F	120-277	0.15/0.07	15W T4	1200	1	Yes	1.0	1200	17.5	68.6
51987	QTP1x20MH SM UNV J	120-277	0.19/0.09	20W T4	1700	1	Yes	1.0	1700	23	74
51988	QTP1x20MH SM UNV F	120-277	0.19/0.09	20W T4	1700	1	Yes	1.0	1700	23	74
51989	QTP1x39MH SM UNV J	120-277	0.38/0.17	39W T4	3400	1	Yes	1.0	3400	44	77
51990	QTP1x39MH SM UNV F	120-277	0.38/0.17	39W T4	3400	1	Yes	1.0	3400	44	77

1: Data based on ceramic lamp types except where noted.

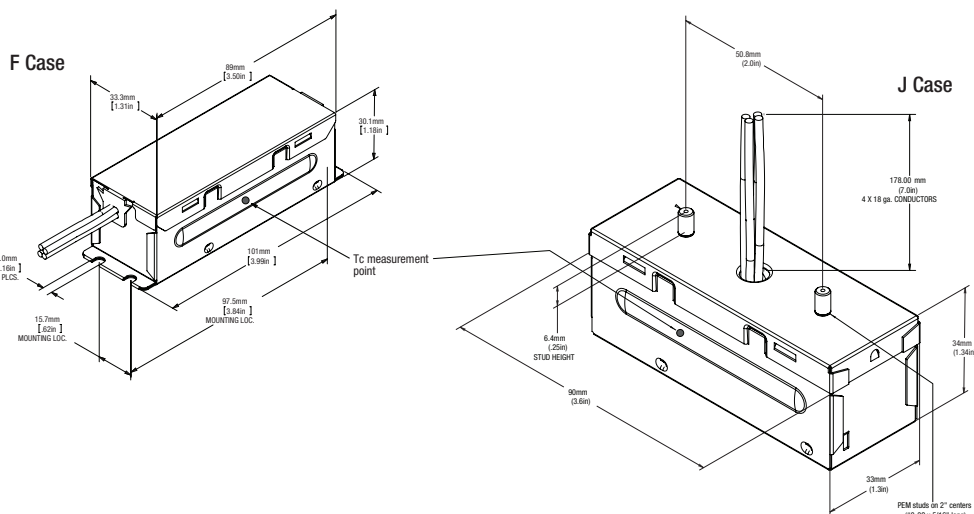
2: Internal IDTP - Insulation Detection Thermal Protector (see system information for detail)

Installation Notes

1. Proper ballast mounting must be followed to allow for maximum thermal dissipation:

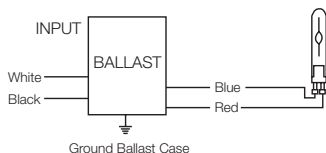
- F can ballast should be mounted with the "feet" side placed tightly against the inside of the fixture
 - J can ballast should be mounted with the PEM Stud side placed tightly against the inside of the fixture
- Lamp holders and conductors:
 - Use minimum 4kV pulse rated lamp holder.
 - Use minimum 4kV pulse rated or UL style 3561 wire for lamp connections. The red lead must be connected to center terminal of lamp. Do not connect any lamp lead to neutral or ground.
 - Grounding:
 - The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting, and acceptable EMI/RFI performance. Install ballast in accordance with national and local electrical codes.
 - Auto shut down function including end-of-life and thermal protection:
 - Disconnect power when servicing. Cycle power to reset ballast after auto shutdown.
 - Control: Do not operate with dimmer or occupancy sensor.

More installation considerations are in the QUICKANSWER section of the Ballast Technology and Specification Guide.



Packaging:

Quantity: 50 pieces per carton
Weight: 20 lbs. per carton
(0.4 lbs each)



Item Number: 51990 QTP 1 x 39 MH SM UNV F
QUICKTRONIC PROFESSIONAL
Number of Lamps (1)
Primary Lamp Wattage
Mounting Style
Line Voltage (120-277V)
Case Type
Metal Halide

Normal Ballast Factor

MH QUICKTRONIC®

Professional Series

Performance Guide

Ballast shall be a metal halide SYLVANIA QUICKTRONIC MH electronic ballast with universal input voltage.

Specifications

Voltage Range: $\pm 10\%$ of 120-277V rated line (108-305V)

Input Frequency: 50/60 Hz

Power Factor: $>98\%$

Low THD: $<10\%$

Starting Temp: $-22^{\circ}\text{F}/-30^{\circ}\text{C}$ min.

Lamp Frequency: 100-120Hz
Square Wave

UL listed and UL listed to Canadian safety standards, Type 1, Outdoor Suitable for recessed use
85°C Max. Case Temperature, Thermally Protected
FCC 47CFR Part 18 Non-Consumer Sound Rated A
ANSI C62.41 Cat. A Transient Protection Remote Mounting capability³
Lamp current crest factor: <1.2
RoHS Compliant⁴

3 Remote Mounting (max. wire length from ballast case to lampholder): Typically 6ft. but varies by application. For remote mounting distances up to 15 ft, use #18 AWG minimum 7.5kV pulse rated wire. Output wires should be enclosed in 1/2" metal conduit to minimize EMI (electromagnetic interference). Wire and ground ballast, fixture, conduit & lighting system per NEC (National Electric Code).

4 Complies with European Union Restriction of Hazardous Substances Directive.

System Life / Warranty

QUICKTRONIC products are covered by the QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

Max. Case Temp.

Measured at

Tc Point

$<85^{\circ}\text{C}$

Warranty Period

5 years

OSRAM SYLVANIA
National Customer
Service and Sales Center
1-800-LIGHTBULB
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Specifications subject to change without notice.