

Electronic H.I.D. Ballasts



20 WATT UNIVERSAL MICRO-SLIM

SLIM STYLE CASE SIDE LEAD MODEL



20 Watt Universal Micro-Slim

Only Hatch Offers:

- Ultra low Spectral Power Density
- Patented Half Bridge Technology
- Patented Automatic Lamp Crest Factor Control "ALCFC"
- Industry Leading Remote Mount Capabilities

Features

- Superior color uniformity
- Low profile, lightweight
- Excellent Lumen Maintenance
- Constant lumen output over a wide input voltage range and lamp voltage variation
- Significant energy savings as compared to magnetic ballasts
- Thermal protection
- Approved for recessed use
- Micro Processor Controlled
 - Safety Shut Down Features
 - End of Lamp Life Protection
 - Superior Hot Lamp Restrike Characteristics
- Designed, tested & approved for most Lamp Brands.
(Contact factory for approved list)
- Low Voltage Lamp Shutdown

Environmental Specifications

Minimum Starting Temperature.....-30°C
Maximum Case Temperature.....80°C
Emi/RFI.....Complies with FCC 18C
Sound Rating.....A
Warranty.....Up to 5 Years
Safety Listing..... Type 1 Outdoor

Electrical/Mechanical Specifications

INPUT

Voltage.....Wide range input 108-305VAC
Frequency.....50/60Hz
Line Regulation.....+/-0.5 output variation over
.....full input range
Power Factor.....> 0.95
Total Harmonic Distortion.....< 10%

OUTPUT

Lamp Operating Frequency...165Hz Square Wave
Lamp Current C.F......<1.3
ALCFC.....Yes

Weight.....9.5 oz
Case Material.....Polycarbonate
Transient Protection.....Yes
Short Circuit Protection.....Yes
Thermal Protection.....Yes
Open Circuit / No Lamp / Hot Lamp Shutdown, Retry and Ignition Failure Protection.....Yes
Ignition failure shutdown in 5 seconds followed by multiple timed restrikes with lamp ignition or timed shutdown until power is reset (restrike timing is lamp wattage dependent).

Lamp Distance from Ballast.....Consult factory.
Lead Lengths (S Models)
Input......8"
Output......10"
Lead Lengths (SL Models)
Input......13"
Output......8"
Safety Standard..... US LISTED

HATCH

Hatch Transformers, Inc.

7821 Woodland Center Boulevard Tampa, FL 33614 • Ph: 813-288-8006 • Fax: 813-288-8105 • www.hatchtransformers.com

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DIMENSIONS

E1.

S MODEL
With Feet

Note: Offset Mounting

E2.

S MODEL
No Feet

E3.

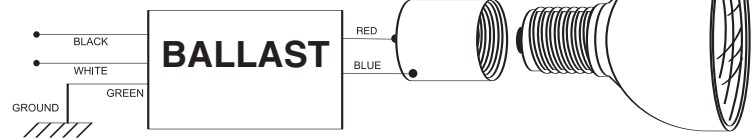
SL MODEL
With Feet

E4.

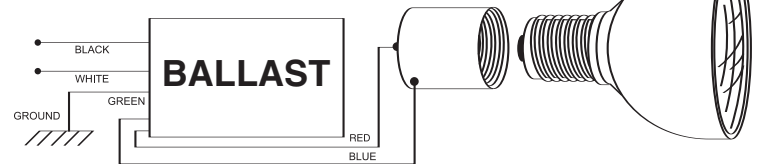
SL Model
Without Feet
(not shown)

WIRING DIAGRAMS

For PAR Lamps



For PAR Lamps



For Double Ended or Bi-Pin Lamps



Watts	LAMP TYPES / ANSI CODES	No. Lamps	Nominal Input Power	Input Current	Case Dim.	Hatch Item Number
20	M156 SLi BriteSpot 20W*	1	24 Watts	120V-.20 Amps 208V-.12 Amps 240V-.10 Amps 277V-.09 Amps	E1 E2 E3 E4	MC20-1-F-UNNS MC20-1-T-UNNS MC20-1-F-UNNSL MC20-1-T-UNNSL

* Call for manufacturers approval.

Specifications subject to change without notice. 0409

**Please call your Hatch representative or refer to the latest
Hatch Electronic Ballast/Lamp Matrix for specifics.**

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