

## M5012/27CK-5EU-JT3

### APPLICATION and PERFORMANCE SPECIFICATION

**Description:** **Standard** - electronic low frequency square wave ballast for 50W metal halide lamps with 120V "tap" for 3 or 4-wire self heating thermal protectors (IDTPs)

- Line Voltage : 120/277vac, +/-10%, 50/60Hz
- Microprocessor controlled
- RoHS Compliant
- Mounting type: Studs - Top lead exit
- Resonance Start
- Active power factor correction
- Abnormal operation shutdown circuit: Line voltage must be reset

60 Hz data

Lamp		Volts	Input Watts	Nominal Line Amps	Power Factor	Ballast Factor	Harmonic Total	Crest Factor
*ANSI Type	#							
M148/M110	1	120	56 w/o IDTP	0.48	> 95%	1.00	< 10%	<1.5
		277	55 w/o IDTP	0.21	> 95%	1.00	< 17%	<1.5
M148/M110	1	120	58 w/IDTP	0.50	> 95%	1.00	< 10%	<1.5
		277	57 w/IDTP	0.23	> 95%	1.00	< 13%	<1.5

\* Consult with ULT TES engineers for lamp compatibility

**Ballast Order Code:** 188613

#### Performance:

- Meets ANSI Standard C82.14-2006
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18C for EMI & RFI (non-consumer)
- EOL Protection

#### Safety:

- No PCBs
- cUL<sub>US</sub> Listed (Outdoor Type 1)
- Thermal Protection

#### Application:

- IDTP "tap" Function: Provides 120V to heaters of IDTPs.
- Compatible with 3 or 4 wire IDTPs
- Operation with IDTP is dual voltage rated for 120V or 277V.
- Can be operated as normal HID ballast with tap lead capped-off for entire 120V to 277V input voltage range
- Minimum Starting Temperature: -15°C/+5°F
- Maximum Case Temperature: 80°C/ 176°F
- Sound Rated: A
- Remote Mounting: 15 Feet

#### Physical Parameters

##### Inches/Metric

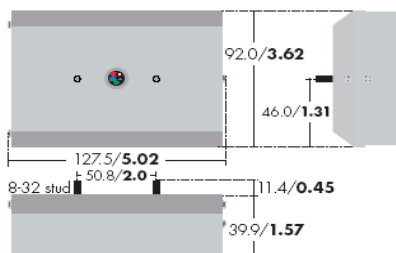
- Overall Length: 5.02"/127.5mm
- Width: 3.62"/92.0mm
- Height: 1.57"/39.9mm
- Weight: 20 oz
- Lead lengths: All 7"/178mm
- Lead stripping:(Tinned) All .375"/9.53mm

Note: Each lamp's lead wires must be run in a separate minimum 1/2" ID conduit from the input leads to achieve good EMI performance and maximum remote capabilities. Individual, unbundled lead wires must be used for extension wiring using wire types SF-2 or SFF-2 or equivalent. Power cords and MC cables are not acceptable extension wiring methods.

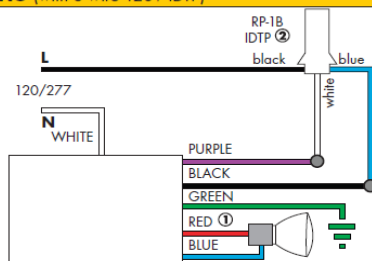
#### Warranty:

Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 3 years from date of manufacture when properly installed and under normal conditions of use. The normal operation of 4000 hr./yr. is used for the warranty period. Longer operating times will adjust the warranty period accordingly. For extended warranty periods greater than 36 months, call 1-800-BALLAST for fixture testing instructions.

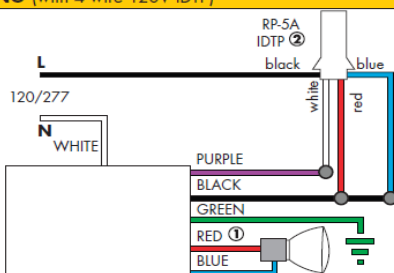
#### Manufactured in North America



#### WIRING (with 3-wire 120V IDTP)



#### WIRING (with 4-wire 120V IDTP)



#### WIRING (with 3-wire 277V IDTP)

