

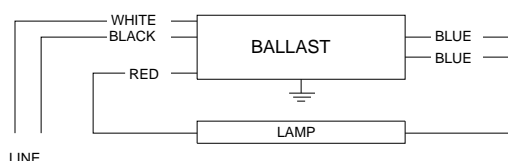


| <b>REL-2P59-S-RH-TP</b> |               |
|-------------------------|---------------|
| Brand Name              | STANDARD ELEC |
| Ballast Type            | Electronic    |
| Starting Method         | Instant Start |
| Lamp Connection         | Parallel      |
| Input Voltage           | 120           |
| Input Frequency         | 60 HZ         |
| Status                  | Active        |

## Electrical Specifications

| Lamp Type | Num. of Lamps | Rated Lamp Watts | Min. Start Temp (°F/C) | Input Current (Amps) | Input Power (ANSI Watts) | Ballast Factor | MAX THD % | Power Factor | MAX Lamp Current Crest Factor | B.E.F. |
|-----------|---------------|------------------|------------------------|----------------------|--------------------------|----------------|-----------|--------------|-------------------------------|--------|
| * F96T8   | 1             | 59               | 32/00                  | 0.62                 | 70                       | 1.10           | 30        | 0.95         | 1.5                           | 1.57   |
| F96T8     | 2             | 59               | 32/00                  | 0.94                 | 110                      | 0.85           | 20        | 0.98         | 1.5                           | 0.77   |
| F96T8/ES  | 1             | 57               | 60/16                  | 0.60                 | 68                       | 1.10           | 30        | 0.95         | 1.6                           | 1.62   |
| F96T8/ES  | 2             | 57               | 60/16                  | 0.90                 | 106                      | 0.85           | 20        | 0.98         | 1.6                           | 0.80   |

### Wiring Diagram



Diag. 69

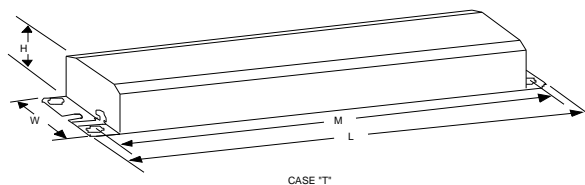
Insulate unused blue lead for 1000V

The wiring diagram that appears above is for the lamp type denoted by the asterisk (\*)

### Standard Lead Length (inches)

|        | in. | cm. |              | in. | cm. |
|--------|-----|-----|--------------|-----|-----|
| Black  | 22L |     | Yellow/Blue  |     |     |
| White  | 22L |     | Blue/White   |     |     |
| Blue   | 46R |     | Brown        |     |     |
| Red    | 70L |     | Orange       |     |     |
| Yellow |     |     | Orange/Black |     |     |
| Gray   |     |     | Black/White  |     |     |
| Violet |     |     | Red/White    |     |     |

### Enclosure



### Enclosure Dimensions

| OverAll (L) | Width (W) | Height (H) | Mounting (M) |
|-------------|-----------|------------|--------------|
| 9.50 "      | 2.375 "   | 1.5 "      | 8.90625 "    |
| 9 1/2       | 2 3/8     | 1 1/2      | 8 29/32      |
| 24.1 cm     | 6 cm      | 3.8 cm     | 22.6 cm      |

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Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

## ADVANCE

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| Input Frequency         | 60 HZ         |
| Status                  | Active        |

## **Electrical Specifications**

### **Notes:**

#### Section I - Physical Characteristics

- 1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Ballast shall be provided with integral leads color-coded per ANSI C82.11.

#### Section II - Performance Requirements

- 2.1 Ballast shall be \_\_\_\_\_ (Instant or Rapid) Start.
- 2.2 Ballast shall provide Independent Lamp Operation (ILO) for Instant Start ballasts allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.4 Ballast shall operate from 60 Hz input source of 120V, 277V or 347V as applicable with sustained variations of +/- 10% (voltage and frequency) with no damage to the ballast.
- 2.5 Ballast shall be high frequency electronic type and operate lamps at a frequency between 20 kHz and 30 kHz or above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.6 Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- 2.7 Ballast shall have a minimum ballast factor for primary lamp application as follows: 0.75 for Low Watt, 0.85 for Normal Light Output, and 1.20 for High Light.
- 2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less in accordance with lamp manufacturer recommendations.
- 2.9 Ballast input current shall have Total Harmonic Distortion (THD) of less than 20% for Standard models and THD of less than 10% for Centium models when operated at nominal line voltage with primary lamp.
- 2.10 Ballast shall have a Class A sound rating for all 4-foot lamps and smaller.
- 2.11 Ballast shall have a minimum starting temperature of \_\_\_\_\_ [-18C (0F) for standard T8 lamps, 10C (50F) for T8/HO, standard T12, Slimline T12 and Long Twin Tube lamps, 0C (32F) for Slimline T8, -29C (-20F) for T12/HO lamps,] for primary lamp application. Ballast shall have a minimum starting temperature of 60F (16C) for energy-saving T8 and T12 lamps.
- 2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions without damage.

#### Section III - Regulatory Requirements

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 1 Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- 3.3 Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- 3.4 Ballast shall comply with ANSI C82.11 where applicable.
- 3.5 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).

#### Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9002 Quality System Standards.
- 4.2 Ballast shall carry a five-year warranty from date of manufacture against defects in material or workmanship, including replacement, for operation at a maximum case temperature of 70C.
- 4.3 Manufacturer shall have a fifteen-year history of producing electronic ballasts for the North American market.
- 4.4 Ballast shall be Advance part # \_\_\_\_\_ or approved equal.

NOTE: The use of Optanium 2.0 (IOP) models is recommended to reduce striation in energy-saving T8 lamps (25W, 28W or 30W). Remote or

tandem wiring of energy-saving T8 lamps (25W, 28W or 30W) is only recommended for Optanium 2.0 (IOP) models.

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