

### ELECTRONIC LOW VOLTAGE TRANSFORMER

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| <b>Input Voltage</b>            | 120Vac, 277VAC or 230VAC - 50-60Hz                       |
| <b>Output</b>                   | 11.5 VAC or 23.5 VAC                                     |
| <b>Enclosure Material</b>       | Aluminum                                                 |
| <b>Weight</b>                   | 24 oz.                                                   |
| <b>Power Factor</b>             | > 0.95                                                   |
| <b>Operating Frequency</b>      | 25KHz                                                    |
| <b>Total Harmonic Dstortion</b> | ≤ 20%                                                    |
| <b>Input</b>                    | 6", 18AWG stranded,<br>105 degree C stripped 3/8" tinned |
| <b>Output</b>                   | 6", 18AWG stranded,<br>105 degree C stripped 3/8" tinned |

### ENVIRONMENTAL SPECIFICATIONS:

|                                     |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| <b>Maximum Case Temperature</b>     | 90°C                                                                      |
| <b>Minimum Starting Temperature</b> | -30°C                                                                     |
| <b>Sound Rating</b>                 | A+                                                                        |
| <b>Operating Humidity</b>           | 95% relative humidity,<br>non-condensating                                |
| <b>Environmental Protection</b>     | Epoxy Sealed for moisture<br>resistance and shock/vibration<br>resistance |

### PRODUCT FEATURES :

- High Reliability
- Moisture Resistant
- Emits no audible noise
- Low Harmonic Distortion
- High power factor
- Lightweight, compact design
- Small case size
- Works with most commercially available dimmers. Hardwire electronic dimmers are recommended for optimum performance.

### APPROVALS:

- Class P Type 1  
Outdoors
- Class 2 Approved



### Soft Start Circuitry

All models of Hatch low-voltage transformers utilize a soft start circuitry to maximize lamp life. The soft start circuit ramps up the lamp filament voltage slowly when the lamp is cold.

NOTE: Instant Start on Hot Lamp Re-Strike

### ELECTRICAL FEATURES:

### Electronic Short-Circuit Protection

All hatch low-voltage transformers employ our (ESP) Electronic Short Circuit and overload Protection. The ESP sensing circuit will instantly shut down the output before any of the components are stressed if a short circuit or over load is detected. The transformer will automatically reset as soon as the fault is corrected.

### HARDWIRE ELECTRONIC

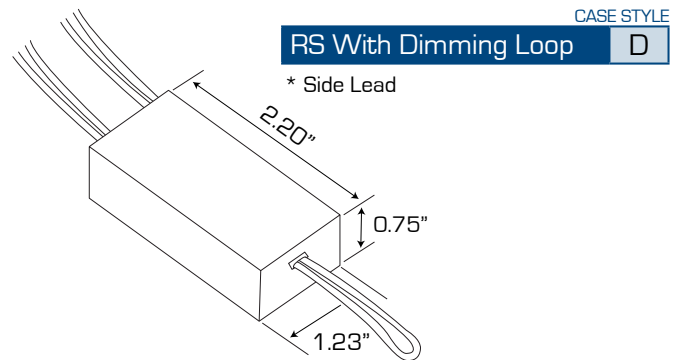
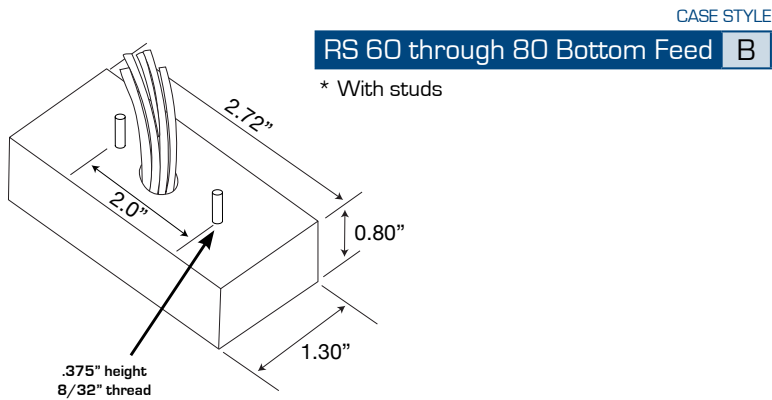
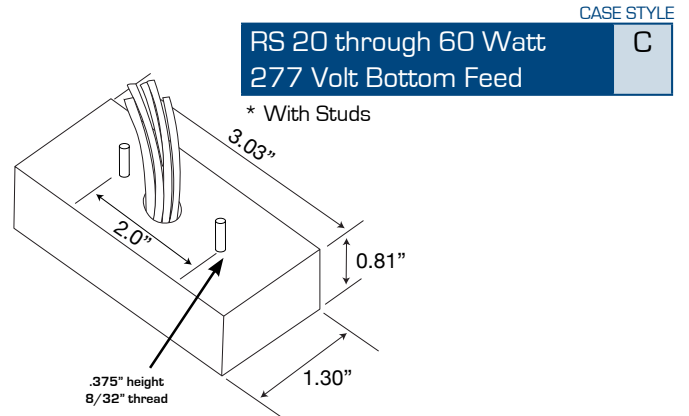
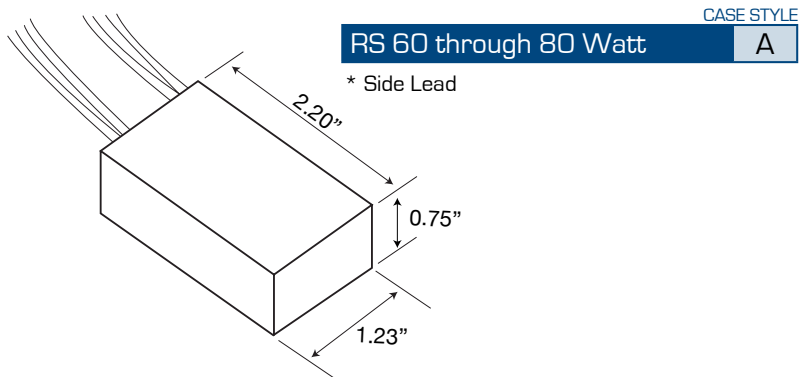
| Max Watts | Min Watts | Hatch Part Number | Input Volts | Output Volts | Input Amps | Output Amps | Case Style | Wire Diagram | Safety Listing                    |
|-----------|-----------|-------------------|-------------|--------------|------------|-------------|------------|--------------|-----------------------------------|
| 60        | 5         | RS12-60M          | 120         | 11.5         | 0.5        | 5.3         | A          | I            | UL/C-UL<br>Recognized,<br>Class 2 |
|           |           | RS12-60MWD        |             |              |            |             | D          | II           |                                   |
|           |           | RS12-60-BF        |             |              |            |             | B          | I            |                                   |
| 80 Watt   |           |                   |             |              |            |             |            |              |                                   |
| 80        | 5         | RS12-80           | 120         | 11.5         | 0.67       | 7.0         | A          | I            | UL/C-UL<br>Recognized             |
|           |           | RS12-80MG         |             |              |            |             | A          | IV           |                                   |
|           |           | RS12-80MGN        |             |              |            |             | A          | IV           |                                   |
|           |           | RS12-80MWD        |             |              |            |             | D          | III          |                                   |
|           |           | RS12-80BFS        |             |              |            |             | B          | I            |                                   |
|           |           | RS24-80M          |             | 23.5         |            | 3.4         | A          | I            |                                   |
|           |           | RS12-80-230       | 230         | 11.5         | 0.35       | 7.0         | A          | I            |                                   |
|           |           | RS12-80-277*      | 277         |              | 0.29       | 7.0         | A          | I            |                                   |
|           |           | RS12-80-277WD*    |             |              |            |             | D          | III          |                                   |
|           |           | RS12-80-277BF*    |             |              |            |             | C          | I            |                                   |
|           |           |                   |             |              |            |             |            |              |                                   |

\* NOTE: Must use a minimum of 20 watts when using dimmers. It is also important to confirm dimming controls compatibility with the manufacturer and your Hatch representative. 277 Volt dimming is not recommended.

DIMENSIONAL & WIRE DIAGRAMS CAN BE FOUND ON PAGE 2

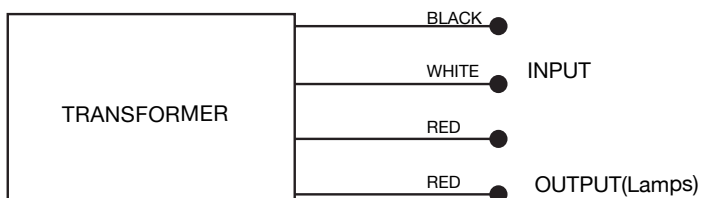
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### DIMENSIONS:

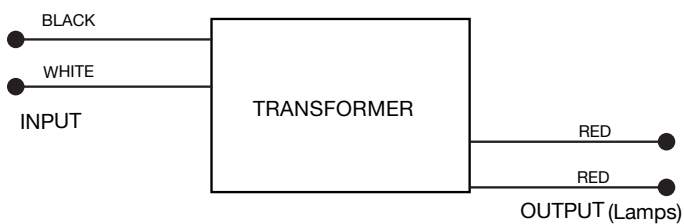


### WIRING DIAGRAMS:

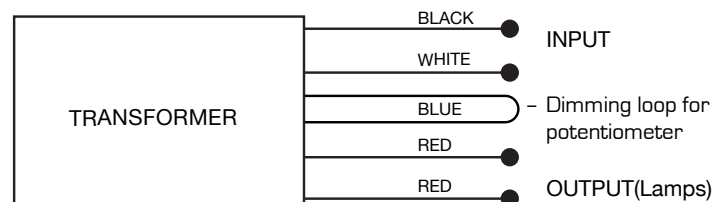
#### I. Halogen Lamps



#### II. Halogen Lamps



#### III. Halogen Lamps



#### IV. Halogen Lamps

