ELECTRONIC DIRECT WIRE-IN PHOTOCONTROLS

"The Performance of an Electronic Twist-lock in a Button Control"

DESCRIPTION

B Series electronic “button type” photocontrols have the same features and performance of electronic twist-lock photocontrols. Energy efficiency is maintained with tight On/Off ratios and “non-drift operation”. Maintenance costs are reduced through a cool running DC circuit. Life expectancy is up to three times longer than traditional heat generating thermal relay designs. The B Series uses the same field proven electronic circuit design as is used in Sun-Tech high performance twist-lock photocontrols.

FEATURES

- Meets or exceeds ANSI C136.10.
- Proven DC circuit design.
- Close 1:1.5 on to off operating ratio.
- Non-chatter load break.
- Surge Protected Electronic Circuit.
- Heavy duty construction.

BENEFITS

- 12 year expected life.
- Low power consumption and extended life from "cool" operating DC circuit.
- Close ratio reduces burning hours at sunrise.
- Extended life and accuracy from non-drift operation throughout its life.
- Significantly reduced energy costs.
- Significantly reduced maintenance costs.

MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing:</td>
<td>UV stabilized, impact resistant thermal plastic.</td>
</tr>
<tr>
<td>Window:</td>
<td>UV inhibitive and absorbing acrylic.</td>
</tr>
<tr>
<td>Lead Wires:</td>
<td>#18 AWG, 12” long.</td>
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<tr>
<td>Packaging:</td>
<td>Individual units are sealed in water resistant plastic.</td>
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<tr>
<td>Weight:</td>
<td>3.0 oz. each, 20 lbs. 100 carton.</td>
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<tr>
<td>Carton Size:</td>
<td>16” x 16” x12” Master carton 100 pieces</td>
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Warranty: 6 Year 1 for 1 replacement warranty.
B Series

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OPERATING SPECIFICATIONS

Operating Voltage:

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
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</thead>
<tbody>
<tr>
<td>B120</td>
<td>105 - 130</td>
</tr>
<tr>
<td>B124</td>
<td>105 – 305</td>
</tr>
<tr>
<td>B240</td>
<td>195 – 305</td>
</tr>
<tr>
<td>B480</td>
<td>420 – 530</td>
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</tbody>
</table>

Load Rating:
1000 Watt tungsten, 1800 VA

Life at rated load:
5,000 Operations (13.7 Years)

Power Consumption:
1.0 watts average @ 120 volts
1.6 watts average @ 208 volts
1.9 watts average @ 240 volts
2.1 watts average @ 277 volts

Moisture Resistance:
100% RH.

Standard Surge Protections:
- 90 Joule.
- 160 Joule.

Operating Light Levels:
+/- 0.1 fc. from specified turn-on level.
1:1.5 Average turn-on to turn-off ratio.

Photosensor:
- Conformally coated cadmium sulfide photocell.
- Encapsulated phototransistor.

Dielectric Strength:
5,000 Volts between any current carrying part.

Ambient Temperature Range:
-40°C to +70°C (-40°F to + 158°F).

CROSS REFERENCE

<table>
<thead>
<tr>
<th>Sun - Tech</th>
<th>Dark to Light</th>
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<tbody>
<tr>
<td>B120</td>
<td>DB120</td>
</tr>
<tr>
<td>B240</td>
<td>DB240</td>
</tr>
<tr>
<td>B124</td>
<td>DB124</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION

B120 - 1.0 - S T M

Model #    | Turn-On | Photosensor | Time Delay   | Surge Protection |
-----------|---------|-------------|--------------|-----------------|
B120 (105 - 130V) | 1.0 fcs. On | S CdS Photocell | No Delay * | 90J MOV * |
B124 (105 - 305V) | 1.5 fcs. On | P Phototransistor | 3-5 Sec. Delay | M 160J MOV |
B240 (195 - 305V) | 2.0 fcs. On |             |             |                 |

* No Letter

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