3L Photocells

V2PC, D2S and EV2IH Series

The only UL recognized photocells for Class I, Division 2 areas. Eliminates the need for an explosionproof box!

Eaton’s Crouse-Hinds factory-sealed, field installed photocells offer reliable, dusk-to-dawn lighting control in Class I, Division 2 locations. These photocells are ideal for walkways, security lighting, and any other outdoor lighting application that utilizes Champ® H.I.D. lighting luminaires.

Applications:
Eaton’s Crouse-Hinds photocells are designed:
• To provide control for automatic dusk-to-dawn lighting.
• For safety by turning on outdoor luminaires in critical passageways at night.
• To save energy by operating luminaires only when needed.
• For walkways, parking areas, outdoor process areas, security lighting, or any outdoor lighting application in Class I, Division 2 locations and corrosive environments.
• For use with LMV, DMV, VMV, VMV High Wattage, and FMV Series Champ® lighting luminaires (V2PC Series).
• For use on 35–400 watt H.I.D., incandescent, or fluorescent lighting luminaires.
• For remote mounting in FS boxes (D2S Series).
• For mounting in EIH enclosures for Class I, Division 1 applications (EV2IH Series).

Features:
• Field-installable.
• Solid-state design for performance and dependability.
• Factory sealed components.
• Explosionproof enclosure not required for Class I, Division 2 locations.
• Luminaires turn on at 3 footcandles, off at 8 footcandles insuring that the luminaires are operating only when needed.
• Built-in 10 second time delay to eliminate nuisance tripping.
• Eight-year operating life.
• Furnished with 6" stranded 600 volt color coded wire leads.
• Constructed from corrosion-resistant thermoplastic polyester.
• Available on a DS cover for use with any FS/FD box (D2S Series).
• Available in an EIH enclosure for use in Class I, Division 1, Groups B*, C, and D locations (EV2IH Series). No seals required.

Certifications and Compliances:
V2PC Series and D2S Series
• NEC/CEC:
  Class I, Division 2, Groups A, B, C, D
• UL Standard: 844 – Hazardous (Classified) Locations
• CSA: C22.2 No. 55

EV2IH Series
• NEC/CEC:
  Class I, Division 1 and 2, Groups B, C, D
  Class II, Division 1, Groups E, F, G
  Class II, Division 2, Groups F, G
  Class III
• NEMA: 3, 4, 7BCD, 9EFG
• UL Standard: 844 – Hazardous (Classified) Locations
• CSA: C22.2 No. 30, 55

Electrical Rating Ranges:
• 120, 208, 220, 240, 277 VAC
• 50 / 60 Hz
• 35–400 watt H.I.D., incandescent, or fluorescent
• V2PC20 – 3.3A max. current rating
• V2PC22 – 1.8A max. current rating
• V2PC27 – 1.4A max. current rating

*For Group B applications, seal within 1/4" of enclosure in accordance with Section 501-5 of the National Electric Code*. 
Photocells

Cl. I, Div. 2, Groups A, B, C, D
Maintains Cl. I, Div. 2 Suitability of Eaton’s
Crouse-Hinds Champ® Series Luminaires

V2PC, D2S and EV2IH Series

Ordering Information:

Photocell for field installation in lighting fixtures*

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Voltage Range</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2PC20</td>
<td>120V, 50/60Hz</td>
<td>3.3A</td>
</tr>
<tr>
<td>V2PC22</td>
<td>208–240V, 50/60Hz</td>
<td>1.8A</td>
</tr>
<tr>
<td>V2PC27</td>
<td>277V, 50/60Hz</td>
<td>1.4A</td>
</tr>
</tbody>
</table>

Photocell in DS cover for use with FS/FD box

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Voltage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>D2S20</td>
<td>120V, 50/60Hz</td>
</tr>
<tr>
<td>D2S208 277</td>
<td>208V-277V</td>
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</tbody>
</table>

Photocell in EIH enclosure for use in Class I, Division 1, Groups B, C, and D; Class II, Division 1, Groups E, F, and G; and Class III locations

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Voltage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV2IH20</td>
<td>120V, 50/60Hz</td>
</tr>
<tr>
<td>EV2IH208 277</td>
<td>208–277V 50/60Hz</td>
</tr>
</tbody>
</table>

Replacement Photocell for D2S Cover or EIH Enclosure * †

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Voltage Range</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2PCT20</td>
<td>120V, 50/60Hz</td>
<td>8.33A</td>
</tr>
<tr>
<td>V2PCT208 277</td>
<td>208V-277V 50/60Hz</td>
<td>4.81A - 3.61A depending on voltage</td>
</tr>
</tbody>
</table>

* Must be factory installed in Canada.
† When mounting in EIH enclosures for Class I, Division 1 applications (EV21H Series) seals are not required for Groups C & D.

Options:

To order luminaire with photocell factory installed:
1. Specify luminaire dedicated supply voltage (not MT, DT, or TT)
2. Add photocell Cat. No. to fixture Cat. No. as follows:
   - V2PC20
   - V2PC22
   - V2PC27

Example: VMVSJ070GP/120-V2PC20 is a 120V 60Hz luminaire with a factory installed photocell.

Note: Only the V2PC is available as a factory installed photocell.
V2PC not available with ceiling mount Champ® cover (VMV, LMV and DMV Series).
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Dimensions:
In Inches:

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV2IH</td>
<td>5.00</td>
<td>4.25</td>
<td>2.60</td>
<td>4.54</td>
<td>5.25</td>
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