The Imagine HES98020 rack mounted control module contains two identical output units within a moulded case and is designed as an exchangeable module for fitting into ESR dimmer cabinets. It can be connected to 0-10V, 1-10V and DSI® electronic ballasts. The dimmer is provided with a three-digit LED display, normally indicating the current output level and four push buttons for manual operation and address setting.

Key Features

- Full output unit status feedback via SDIM control bus permitting full system monitoring.
- The unit has two freely configurable control outputs that can be set as current sources or current sinks depending on the type of load connected.
- Override input for a switching contact to allow the channels to be set to a pre-programmed level in conjunction with lighting router only.

Installation Notes

- The output module is specifically designed to be fitted into the ESR dimmer rack stacker unit.
- It can be connected to 0-10V, 1-10V and DSI® electronic ballasts or other analogue control equipment.
- It can switch power up to 15 electronic ballasts and control up to 50 according to EN60929.
- Analogue control output connection (if used) are via a connector on the right hand side of the module. Power connections armade using terminal screws under the terminal cover on the left-hand side of the front of the dimmer. All other connections are made at the rear of the dimmer unit via a plug-in connector.

Power Connection Table

<table>
<thead>
<tr>
<th>Dimmer module</th>
<th>Distribution Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal N.</td>
<td>Neutral</td>
</tr>
<tr>
<td>Terminal LA.</td>
<td>Ch 1 live feed from MCB.</td>
</tr>
<tr>
<td>Terminal LB.</td>
<td>Ch 2 live feed from MCB.</td>
</tr>
<tr>
<td>Terminal CHA.</td>
<td>Ch 1 Relay output terminal</td>
</tr>
<tr>
<td>Terminal CHB.</td>
<td>Ch 2 Relay output terminal</td>
</tr>
</tbody>
</table>

DSI® is a registered trademark of Tridonic GmbH.
Technical Data

Electrical Input

Mains: 180 - 260 V AC, 45 - 65 Hz
(90 - 130 V AC to order)

Power Consumption: 12 W off load

Electrical Output

Control Output: 100 mA drive, capable of driving up to 50 ballasts

Output Power: 20 A relay for switching of mains to ballasts

<table>
<thead>
<tr>
<th>Dimming Curve</th>
<th>HES98020</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Non dimming (for switched loads)</td>
</tr>
<tr>
<td>1</td>
<td>1-10V analogue (EN60929)</td>
</tr>
<tr>
<td>2</td>
<td>0-10V analogue</td>
</tr>
<tr>
<td>3</td>
<td>Pulse Width Modulation</td>
</tr>
<tr>
<td>4</td>
<td>3.5-10V analogue (EL-AC)</td>
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<tr>
<td>5</td>
<td>Switched Pulse Width Modulation</td>
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<tr>
<td>6</td>
<td>DSI (Tridonic)</td>
</tr>
<tr>
<td>7</td>
<td>Switched DSI</td>
</tr>
<tr>
<td>8</td>
<td>Pulse Width Modulation with Relay-applied delay</td>
</tr>
</tbody>
</table>

Control Inputs/Outputs

Digital Input: RS485 S-DIM protocol (Level and fade time)

Analogue Output: 0…+10 V (Level)

Operating Conditions

Ambient Temperature: 0…+40º C

Relative Humidity: 90% max, non-condensing

Storage Temperature: -10ºC…+70º C

Mechanical Data

Case: ABS polycarbonate blend two-part moulding, 130ºC Vicat UL94-V0 (Halogen Free)

Conformity & Standards

Emission: EN 50 081

Immunity: EN 50 082

RFI: EN 55 014

Safety

Safety: EN 60 950

IP Rating: 30

Isolation: 4 kV

UL File No: EN191962

Dimensions

211mm

43.5mm

Connections

Control Output Connection

Note: Position 1 on right when viewed from side