Wireless Fixture Adapter (WFA100-SN)

Daintree Wireless Solution
The Wireless Fixture Adapter (WFA100-SN) is part of the Daintree product portfolio, an open networked wireless controls solution for lighting and building control, monitoring, and optimization. Daintree controls provide a highly scalable solution to address evolving environmental regulations and transform spaces into intelligent environments for buildings of all sizes.

Consisting of three components, Daintree includes sensors and controls at the edge, an open API cloud platform, and software apps to help facility managers make decisions based on how space and assets are actually being used using a data-rich sensor network. Benefits of adding wireless Daintree controls include:

- Up to 50% Energy savings across lighting, HVAC, plugload, fans and more
- Visibility into energy usage, trends and insights to optimize operations
- Automated demand response, superior comfort and lower maintenance expense

Daintree Wireless Solutions Product Overview
The WFA100-SN is a cost-effective wireless control solution, providing ON/OFF and 0-10V dimming control of ballasts and LED drivers. The isolated relay offers N/O and N/C contacts providing robust switching options to control a variety of loads. Its compact form factor provides for simple installation and makes it an extremely versatile solution for a wide range of fixture types and sizes. It can also adapt low voltage occupancy and photo sensors to enable these devices to be controlled wirelessly.

The WFA100-SN integrates a standard ZigBee radio that operates seamlessly with other standard ZigBee wireless products to enable advanced lighting controls, from scheduling and occupancy control to daylighting, task tuning and more.
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Warranty
GE offers 24 x 7 support with a 30-minute rapid response time for technical issues. The average tenure of GE’s support is 10 years and a 93% overall satisfaction rating. The table below summarizes the warranty period for all components of the Daintree system.

<table>
<thead>
<tr>
<th>Component</th>
<th>Warranty Period</th>
<th>Coverage Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daintree Software</td>
<td>1 year</td>
<td>As long as all applicable fees due are paid, Daintree Software will substantially conform to the applicable published documentation and published specifications for the Warranty Period.</td>
</tr>
<tr>
<td>System Controller</td>
<td>3 years</td>
<td>100% parts coverage. Warranty for non-Daintree software is provided by the respective software; GE makes no warranty with respect to non-Daintree software.</td>
</tr>
<tr>
<td>WACs</td>
<td>5 years</td>
<td>100% parts coverage</td>
</tr>
<tr>
<td>Wireless Adapters</td>
<td>5 years</td>
<td>100% parts coverage</td>
</tr>
<tr>
<td>Wireless Devices</td>
<td>5 years</td>
<td>100% parts coverage, excluding batteries</td>
</tr>
<tr>
<td>Wireless Thermostats</td>
<td>2 years</td>
<td>100% parts coverage</td>
</tr>
</tbody>
</table>

Specifications

- **Dimensions (w/mounting)**: 1.18” W x 0.98” H x 7.03” L (30mm W x 25mm H x 178.5mm L)
- **Operating Environment**: -13°F to +158°F (-25°C to +70°C) Indoor use only (or inside non-metallic waterproof enclosure)
- **Indicators**: Green LED (power) Green LED (joined network) Red LED (error state)
- **Mounting**: In-fixture/enclosure screw installation
- **Input Power**: 120-277 VAC 50/60Hz
- **Power Consumption**:
  - 0.72W @120V (Idle, Relay OFF)
  - 0.72W @277V (Idle, Relay OFF)
  - 1.18W @120V (Relay ON)
  - 1.18W @277V (Relay ON)
- **Occupancy Input**: Active high (≥ 8V), Max 40V, Impedance ~23K
- **Photo Sensor Input**: 0-10V, Max 24V, Input resistance ~9K
- **Isolated Relay**: N/O and N/C contacts Zero Crossing
- **Load Rating**: 3A @ 120-277 VAC
- **Load Types**: General Use, Electronic Ballast
- **Ballast/Driver Control**: On/Off 0-10V Dimming
- **Low Voltage Output**: 24VDC; 35mA
- **Dimming Output**: 0-10V; 5mA (sink or source)
- **Slave/Power Pack Control**: Yes (using isolated relay contacts)
- **Radio Properties**: 2.4 GHz +8dBm transmit power
- **Compliance**: UL listed, FCC Part 15, RoHS
- **Warranty**: 5 Years

Connectors (Terminal Block) Function

**INPUT VOLTAGE**
- Black: Active
- White: Neutral

**ISOLATED RELAY**
- Red: Normally Open (N/O) contact
- Yellow: Normally Closed (N/C) contact
- Black: Common

**SENSORS**
- Red: 24VDC
- Gray: Digital Ground
- Blue: Digital input (occupancy sensor)
- Orange: 0-10VDC Analog input (photosensor)

**DIMMING**
- Gray: Analog Ground
- Violet: 0-10VDC Analog output

Installation Instructions

Each terminal can accept one conductor only. Connect only one 24AWG to 16AWG (0.2 -1.5mm2) wire to any terminal locations showing normal/emergency.

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