# HZ2-DIMLVEX

## Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC

**White shown with Custom Engraving on a Style 6 Button Assembly, Faceplate not included**

- *0-10V dimming control*
- *Integrated switch to cut load power*
- *1- to 4-gang U.S. wall box installation using Horizon® 2 multi-gang faceplates (HZ2-FP-G series, sold separately)*
- *Robust infiNET EX® wireless communication*
- *Preinstalled large rocker button assembly (Style 6) with default engraving or can be configured with six different button assemblies with custom engraving*
- *Multicolor RGB LEDs provide backlighting for engraved buttons*
- *White LED backlighting is available and can be dynamically set anywhere between 2000K and 8000K*
- *Replacement button assemblies available in six styles to accommodate changes in device function or engravings*
- *Textured blank button assemblies available for engraving by a third-party*
- *Ambient light sensor for auto-dimming with separate day and night backlight modes*
- *Fully programmable via a Crestron control system*
- *Local button functionality for load control without programming*
- *Requires neutral wire connection*
- *Crestron Home® OS compatible*
- *Available in textured, glass, and metal finishes*

The HZ2-DIMLVEX Horizon® 2 in-wall 0–10V dimmer and switch provides infiNET EX® wireless network control of 0–10V controlled ballasts and drivers. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.

The HZ2-DIMLVEX is available with default engraving on a rocker button assembly (Style 6) or custom engraving on any style button assembly.

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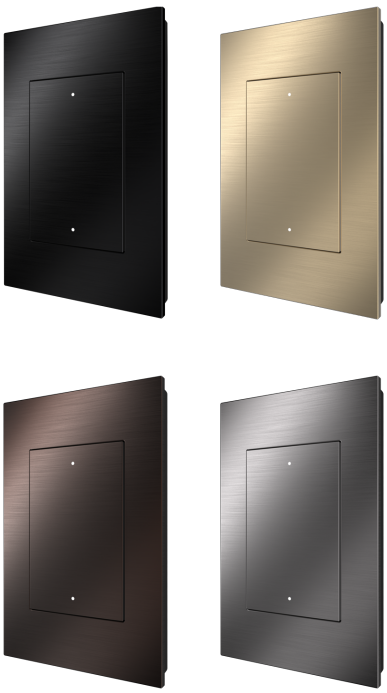
- Default engraving on a rocker button (Style 6) is provided with the HZ2-DIMLVEX-A, HZ2-DIMLVEX-W, HZ2-DIMLVEX-B, HZ2-DIMLVEX-GLASS-W, HZ2-DIMLVEX-GLASS-B, HZ2-DIMLVEX-BR-BLK, HZ2-DIMLVEX-BR-BRASS, HZ2-DIMLVEX-DR-BRZ, and HZ2-DIMLVEX-DR-NKL. The default engraving includes a simple dot to provide feedback and indicate where the button can be pressed.

**Textured**

**Glass**

**Metal**



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# HZ2-DIMLVEX

## Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC

- Custom engraving on any style button assembly is provided with the HZ2-DIMLVEX-A ENGRAVED, HZ2-DIMLVEX-W ENGRAVED, HZ2-DIMLVEX-B ENGRAVED, HZ2-DIMLVEX-GLASS-W ENGRAVED, HZ2-DIMLVEX-GLASS-B ENGRAVED, HZ2-DIMLVEX-BR-BLK-ENGRAVED, HZ2-DIMLVEX-BR-BRASS-ENGRAVED, HZ2-DIMLVEX-DR-BRZ-ENGRAVED, and HZ2-DIMLVEX-DR-NKL-ENGRAVED.

**Textured**

**Glass**

**Metal**

> **NOTE:** Faceplates are not included. Refer to the HZ2-FP-G series faceplates for more information.

### Integrated Keypad

Supporting up to five buttons in six available button configurations, the HZ2-DIMLVEX is configurable for a variety of applications. When connected to the Crestron network, the keypad can trigger remote actions.

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### Button Engraving

Each button on the assembly can be labeled with a custom laser-etched engraving to indicate its specific function. Engraved buttons can be illuminated using the device's LED backlights. Engraving is included with ENGRAVED models. Textured button assemblies without engraving (BLANK models) are also available and can be used as is or can be custom engraved by a third-party engraver.

> **NOTE:** Glass and metal buttons can only be engraved by Crestron and are not offered blank.

When a custom engraved model is ordered, the completed engraved button assembly is installed on the device before it is shipped. Engraving files must be provided at time of order and can be created using Impress Custom Engraving Software, the Crestron Home® Setup app, the Crestron Home Online Configurator, or D3Pro® software. If necessary, custom engraving can be changed until the order is processed by emailing orders@crestron.com with the updated engraving file and order information.

To order replacement engravings, refer to the HZ2-BTNS ENGRAVED button assembly product page.

### Multicolor Backlit Buttons

The engraved buttons are illuminated using the device's RGB LED backlights. Each button can be assigned custom color backlighting. The LED backlight provides feedback by changing the intensity, changing the color, or flashing to show that an action is being performed. Backlighting colors can be adjusted using Crestron Home software or other Crestron programming tools.

Local color theme sets the colors for all buttons on the device. In addition to the local color theme, each button can be assigned an alternate color theme. Thirteen local color themes are available that include Tunable White (default is Warm White), Neutral White, Cool White, and a variety of common colors. The local color theme and alternate color themes can be changed programmatically.

### Field-Replaceable Button Assemblies

Field-replaceable button assemblies allow for changes in device function or for the customer to use the system before finalizing the engravings. The button assembly can be replaced with any custom engraved or blank HZ2-BTNS button assembly. All Horizon 2 devices can use textured, glass, or metal finishes.

The HZ2-DIMLVEX devices are available in the following finishes and styles:

- Textured Finishes
  - White (-W)
  - Black (-B)
  - Almond (-A)
- Glass Finishes
  - White Glass (-GLASS-W)
  - Black Glass (-GLASS-B)
- Metal Finishes
  - Brushed Black (-BR-BLK)
  - Brushed Brass (-BR-BRASS)
  - Dark Bronze (-DR-BRZ)
  - Dark Nickel (-DR-NKL)
- **Style 1:** 5 single buttons

  **HZ2-BTNS-1 ENGRAVED (White shown)**

- **Style 2:** 4 single buttons and 1 split rocker button; The split rocker button is located in the lowest button position

  > **NOTE:** The split rocker button does not allow for a center push and shares one backlight.

  **HZ2-BTNS-2 ENGRAVED (White shown)**

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# HZ2-DIMLVEX

## Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC

- **Style 3:** 4 single buttons and 1 split rocker button; The split rocker button is located in the second lowest button position

> **NOTE:** The split rocker button does not allow for a center push and shares one backlight.

**HZ2-BTNS-3 ENGRAVED (White shown)**

- **Style 4:** 3 single buttons and 2 split rocker buttons; The split rocker buttons are located in the two lowest button positions

> **NOTE:** The split rocker buttons do not allow for a center push and each split rocker shares one backlight.

**HZ2-BTNS-4 ENGRAVED (White shown)**

- **Style 5:** 1 medium rocker button and 2 single buttons; Single buttons are located in the two lowest button positions

> **NOTE:** The medium rocker button does not allow for a center push and provides a separate backlight for the top, bottom, and center positions.

**HZ2-BTNS-5 ENGRAVED (White shown)**

- **Style 6:** 1 large rocker button

> **NOTE:** The large rocker button does not allow for a center push and provides a separate backlight for the top, bottom, and center positions.

**HZ2-BTNS-6 ENGRAVED (White shown)**

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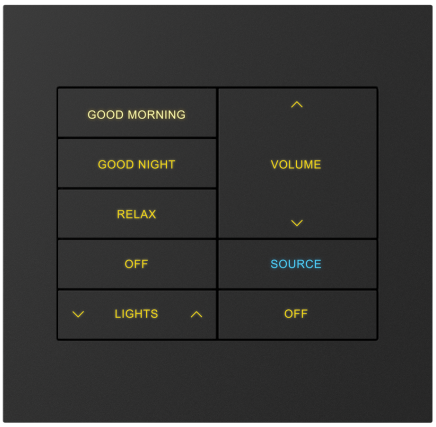
# HZ2-DIMLVEX

## Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC

### Multigang Expansion with Horizon 2 Faceplates

Install up to four Horizon® 2 devices side-by-side in a US multigang electrical box with a compatible HZ2-FP-G series faceplate. When multiple devices are installed in a 2-, 3-, or 4-gang faceplate, the buttons on the devices are aligned to form one continuous control surface.




### Ambient Light Sensor

To ensure optimal visibility under varying lighting conditions, the button backlighting and indicator intensity adjusts automatically according to the amount of ambient light in the room.

### Standard Wall Mount

Horizon keypads are designed to fit in a standard electrical wall box, making them perfect for installation in a multi-gang box alongside other Horizon devices.

### infiNET EX Communications

infiNET EX wireless technology provides two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Each infiNET EX device acts as an expander by sending command signals to other infiNET EX devices in range (approximately 150 ft (46 m) indoors) to ensure reliability and stability.

The device communicates with a control system via a Crestron Wireless Gateway (sold separately). Up to 100 infiNET EX devices may coexist on a wireless network.

> **NOTE:** Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. A dedicated infiNET EX Wireless Expander is also available (CLW-EXPEX, sold separately).

## Specifications

### Load Control

| | |
|---|---|
| **Load Type** | 0-10VDC Ballasts, LED Drivers |
| **Load Rating** | 10A maximum;<br>No minimum load |
| **Dim Control Output** | 0-10VDC 60 mA sink/source |
| **Preset Fade Time** | 1 second (default), when operated without a control system;<br>Fade time is adjustable when controlled by a control system |

### Power Requirements

120VAC, 50/60 Hz;
Requires neutral wire connection

### Controls

| | |
|---|---|
| **Push button** | (9) Push buttons, located under the button assembly;<br>Push buttons are actuated by the installed button assembly |
| **Button Assembly** | (1) Button assembly included;<br>Default engraving: Includes default engraving on a Style 6 button assembly;<br>Custom engraving (ENGRAVED models): Includes custom engraving on any style button assembly;<br>Compatible with Style 1–6 button assemblies |

> **NOTE:** The center of a rocker-style button cannot be used to actuate a push button. Rocker buttons are included on the HZ2-BTNS-2, HZ2-BTNS-3, HZ2-BTNS-4, HZ2-BTNS-5, and HZ2-BTNS-6 button assemblies.

| | |
|---|---|
| **Setup** | (1) Push button;<br>Front of the faceplate must be removed to access the push button;<br>Can be used to set the local LED backlight color theme or calibrate the ambient light sensor |

### LED Indicator and Light Sensor

| | |
|---|---|
| **LED Feedback** | (5) RGB LED backlights;<br>Supports one local color theme for all LEDs;<br>Supports one alternate color theme for each backlit position |

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| | |
|---|---|
| **Light Sensor** | (1) Photosensor with adjustable sensitivity; Detects the ambient room light level to activate day or night mode and autodimming the backlight |

> **NOTE:** Light sensor performance may be affected by obstructions placed below the keypad.

### Wireless

| | |
|---|---|
| **RF Transceiver** | infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15;<br>IEEE 802.15.4 compliant |
| **Range (typical)** | 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device;<br>Subject to site-specific conditions and individual device capabilities |
| **Gateway** | Requires a Crestron Wireless Gateway (sold separately) |

### Connections

| | |
|---|---|
| **HOT** | (1) 12 AWG flying lead;<br>Black, line power input (wire nut included) |
| **NEU** | (1) 12 AWG flying lead;<br>White, neutral (wire nut included) |
| **LOAD** | (1) 12 AWG flying lead;<br>Red, switched power output to load (wire nut included) |
| **GND** | (1) 12 AWG flying lead;<br>Green with yellow stripe, ground (wire nut included) |
| **DIM +** | (1) 12 AWG flying lead;<br>Purple, 0–10V dimming control output, positive (wire nut included) |
| **DIM -** | (1) 12 AWG flying lead;<br>Pink, 0–10V dimming control output, negative (wire nut included) |

> **NOTE:** The older version of this product had gray wire for DIM -.

### Environmental

| | |
|---|---|
| **Temperature** | 32° to 86°F (0° to 30°C) |
| **Humidity** | 10% to 90% RH (noncondensing) |

### Construction

| | |
|---|---|
| **Mounting** | Mounts in a 1- to 4-gang U.S. electrical box (not included);<br>3.5 in. (26 mm) electrical box depth recommended;<br>Derating required in multigang applications |
| **Faceplate** | Requires a Horizon® 2 faceplate (HZ2-FP-G, sold separately, metal backplate included with faceplate);<br>Multigang installations require a 2-, 3-, or 4-gang Horizon® 2 faceplate with metal backplate (HZ2-FP-G, sold separately);<br>The metal backplate is required for all installations where the electrical box is flush with or recessed from the wall surface;<br>The metal backplate is not recommended for electrical boxes that protrude beyond the wall surface |

### Dimensions

| | |
|---|---|
| **Height** | 4.13 in. (105 mm) |
| **Width** | 1.80 in. (46 mm) |
| **Depth (Textured)** | 1.75 in. (45 mm) overall, extends 0.44 in. (12 mm) from wall surface when installed |
| **Depth (Glass, Metal)** | 1.89 in. (48 mm) overall, extends 0.46 in. (12 mm) from wall surface when installed |

### Weight

7.4 oz (208 g)

### Compliance

FCC, UL, IC

**Regulatory Model: M201849005**

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## Models

### Textured

**HZ2-DIMLVEX-A ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Almond

**HZ2-DIMLVEX-B ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Black

**HZ2-DIMLVEX-W ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, White

**HZ2-DIMLVEX-A**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Almond

**HZ2-DIMLVEX-B**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Black

**HZ2-DIMLVEX-W**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, White

### Glass

**HZ2-DIMLVEX-GLASS-B ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Black Glass

**HZ2-DIMLVEX-GLASS-W ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, White Glass

**HZ2-DIMLVEX-GLASS-B**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Black Glass

**HZ2-DIMLVEX-GLASS-W**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, White Glass

### Metal

**HZ2-DIMLVEX-BR-BLK ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Brushed Black

**HZ2-DIMLVEX-BR-BRASS ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Brushed Brass

**HZ2-DIMLVEX-DRK-BRZ ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Dark Bronze

**HZ2-DIMLVEX-DRK-NKL ENGRAVED**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Dark Nickel

**HZ2-DIMLVEX-BR-BLK**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Brushed Black

**HZ2-DIMLVEX-BR-BRASS**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Brushed Brass

**HZ2-DIMLVEX-DRK-BRZ**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Dark Bronze

**HZ2-DIMLVEX-DRK-NKL**
Horizon® 2 In-Wall 0-10 V Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Dark Nickel

## Available Accessories

For a list of available accessories, visit the HZ2-DIMLVEX product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English.
All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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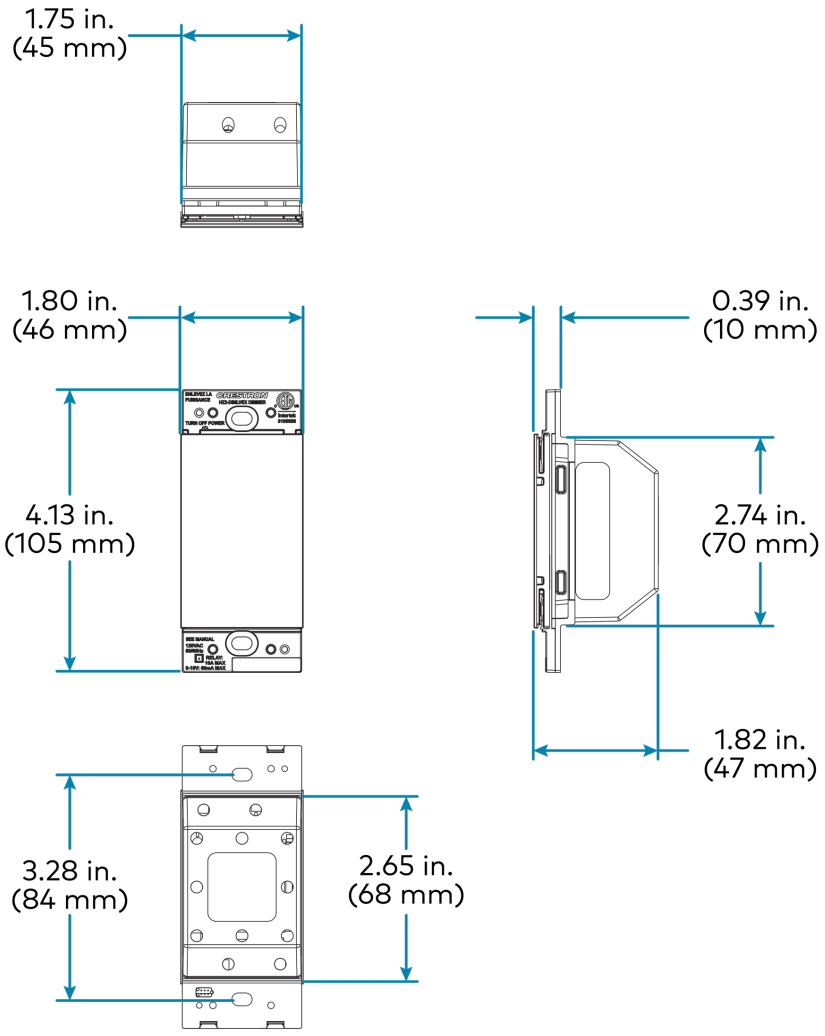
**HZ2-DIMLVEX**

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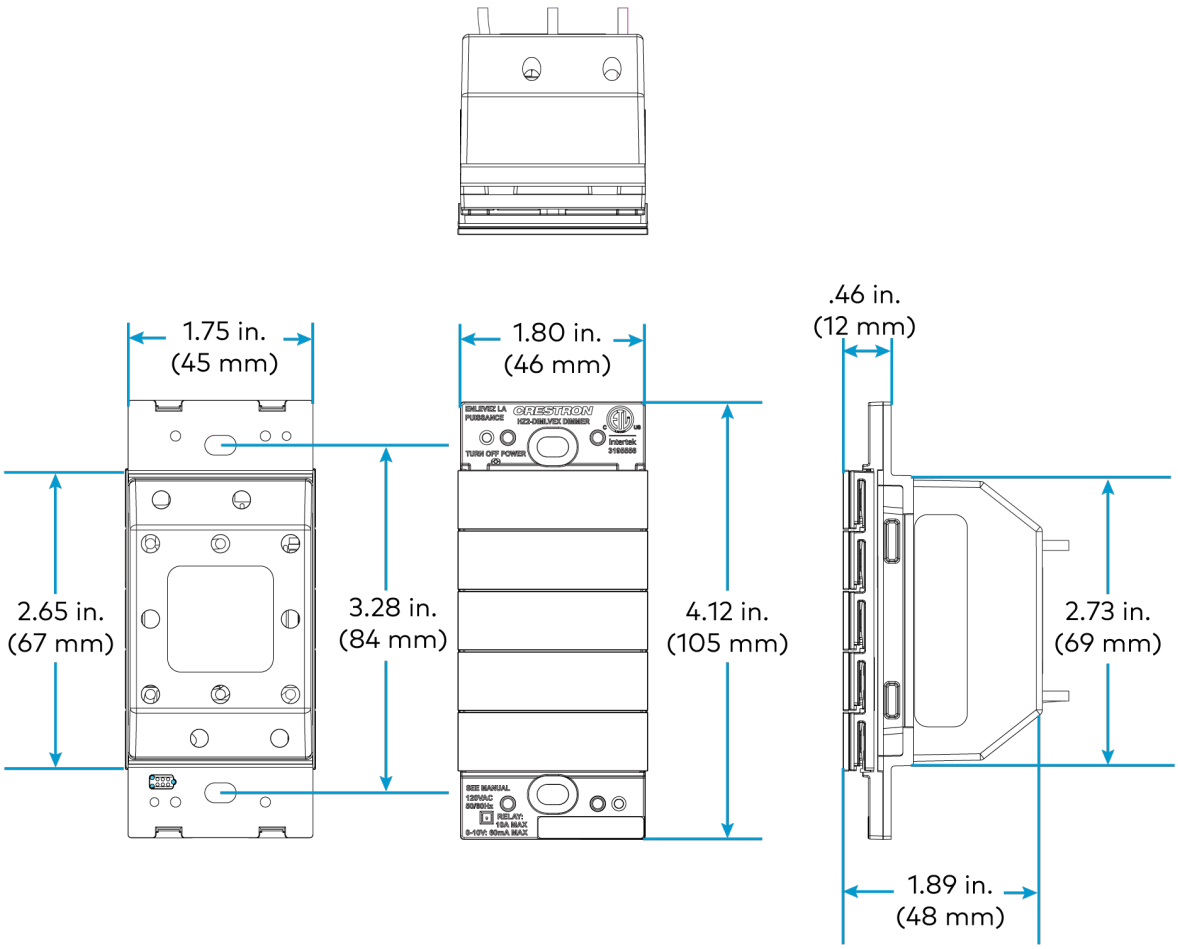
**HZ2-DIMLVEX Glass and Metal**

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