HZ2-DIMEX

Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC

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

- *Forward phase dimming*
- *Switching mode for nondimmable loads*
- *Supports multiway controllers that provide control using a traveler wire in a traditional three- or four-way circuit (HZ2-AUX and HZ2-KPEX, sold separately)*
- *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-DIMEX Horizon® 2 in-wall forward phase dimmer provides infiNET EX® wireless network control of incandescent, magnetic low voltage, and tungsten-halogen loads. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.

The HZ2-DIMEX 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 assembly (Style 6) is provided with the HZ2-DIMEX-A, HZ2-DIMEX-W, HZ2-DIMEX-B, HZ2-DIMEX-GLASS-W, HZ2-DIMEX-GLASS-B, HZ2-DIMEX-BR-BLK, HZ2-DIMEX-BR-BRASS, HZ2-DIMEX-DR-BRZ, and HZ2-DIMEX-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-DIMEX

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

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- **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-DIMEX

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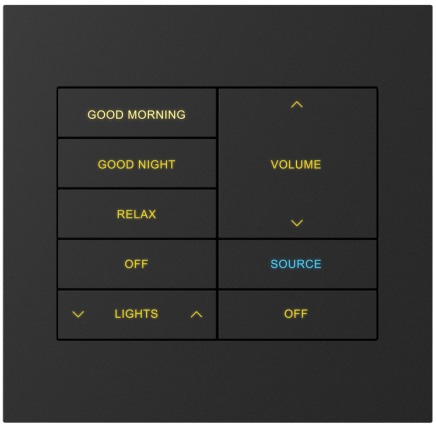
Multigang Expansion with Horizon 2 Faceplates

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.



NOTE: Derating is required for multigang installations. For details, refer to Multigang Derating.

Multiway Control

The HZ2-DIMEX supports load control from multiple locations. Up to four HZ2-AUX or HZ2-KPEX devices (sold separately) can be connected to a traveler wire in a traditional three- or four-way circuit to control an attached load. The HZ2-KPEX provides button backlights and six different engravable button assembly options while the HZ2-AUX provides no button backlight and only accommodates a single large rocker button assembly (Style 6).

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).

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HZ2-DIMEX

Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC

Specifications

Load Control

Load Type	Incandescent, Magnetic Low Voltage, Tungsten-Halogen
Channels	1
Load Rating	750 W/VA maximum; No minimum load
Preset Fade Time	1 second (default), when operated without a control system; 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; Push buttons are actuated by the installed button assembly
Airgap	(1) Switch at the bottom of the device; Controls power to the device and connected loads
Button Assembly	(1) Button assembly included; Default engraving: Includes default engraving on a Style 6 button assembly; Custom engraving (ENGRAVED models): Includes custom engraving on any style button assembly; 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; Front of the faceplate must be removed to access the push button; 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; Supports one local color theme for all LEDs; Supports one alternate color theme for each backlit position
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; IEEE 802.15.4 compliant
Range (typical)	150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device; Subject to site-specific conditions and individual device capabilities
Gateway	Requires a Crestron Wireless Gateway (sold separately)

Connections

Load	(1) Screw clamp terminal, consists of (2) wire inserts and (1) red screw head; Load output; Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head
Line	(1) Screw clamp terminal, consists of (2) wire inserts and (1) black screw head; Line power input; Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head
Neutral	(1) Screw clamp terminal, consists of (2) wire inserts and (1) silver screw head; Neutral input; Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head
Remote	(1) Screw clamp terminal, consists of (2) wire inserts and (1) blue screw head; Remote input from HZ2-AUX or HZ2-KPEX; Accepts (1) 14-12 AWG wire per insert, do not insert wires behind screw head

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Ground	(1) 12 AWG flying lead, Class 1, green with yellow stripe; Ground; Wire nut included

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

Dimensions

Height	4.13 in. (105 mm), air-gap switch extends 0.26 in. (7 mm) from bottom of keypad
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)	1.83 in. (47 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: M201849003

Models

Textured

HZ2-DIMEX-A ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Almond

HZ2-DIMEX-B ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Black

HZ2-DIMEX-W ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, White

HZ2-DIMEX-A
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Almond

HZ2-DIMEX-B
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Black

HZ2-DIMEX-W
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, White

Glass

HZ2-DIMEX-GLASS-B ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Black Glass

HZ2-DIMEX-GLASS-W ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, White Glass

HZ2-DIMEX-GLASS-B
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Black Glass

HZ2-DIMEX-GLASS-W
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, White Glass

Metal

HZ2-DIMEX-BR-BLK ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with

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HZ2-DIMEX

Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC

infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Brushed Black

HZ2-DIMEX-BR-BRASS ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Brushed Brass

HZ2-DIMEX-DRK-BRZ ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Dark Bronze

HZ2-DIMEX-DRK-NKL ENGRAVED
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Custom Engraved, Dark Nickel

HZ2-DIMEX-BR-BLK
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Brushed Black

HZ2-DIMEX-BR-BRASS
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Brushed Brass

HZ2-DIMEX-DRK-BRZ
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Dark Bronze

HZ2-DIMEX-DRK-NKL
Next-Gen Horizon® In-Wall Forward-Phase Dimmer with infiNET EX® Wireless Communication, 120 VAC, Standard Engraved, Dark Nickel

Available Accessories

For a list of available accessories, visit the HZ2-DIMEX 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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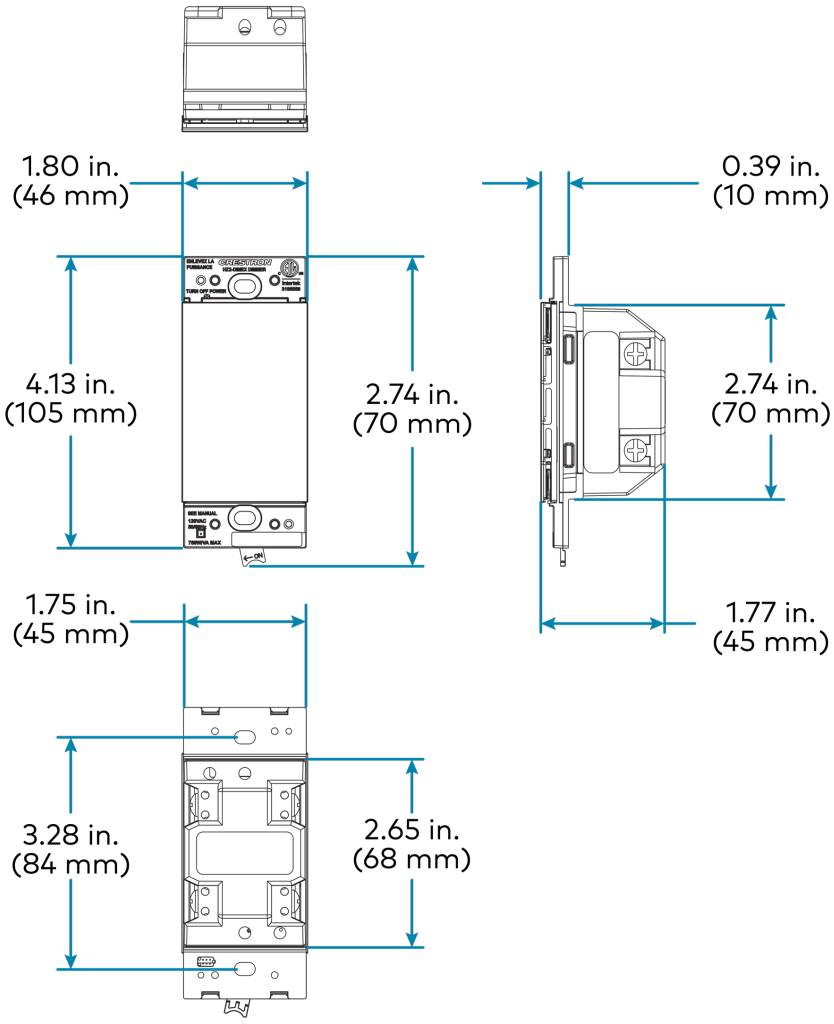
HZ2-DIMEX



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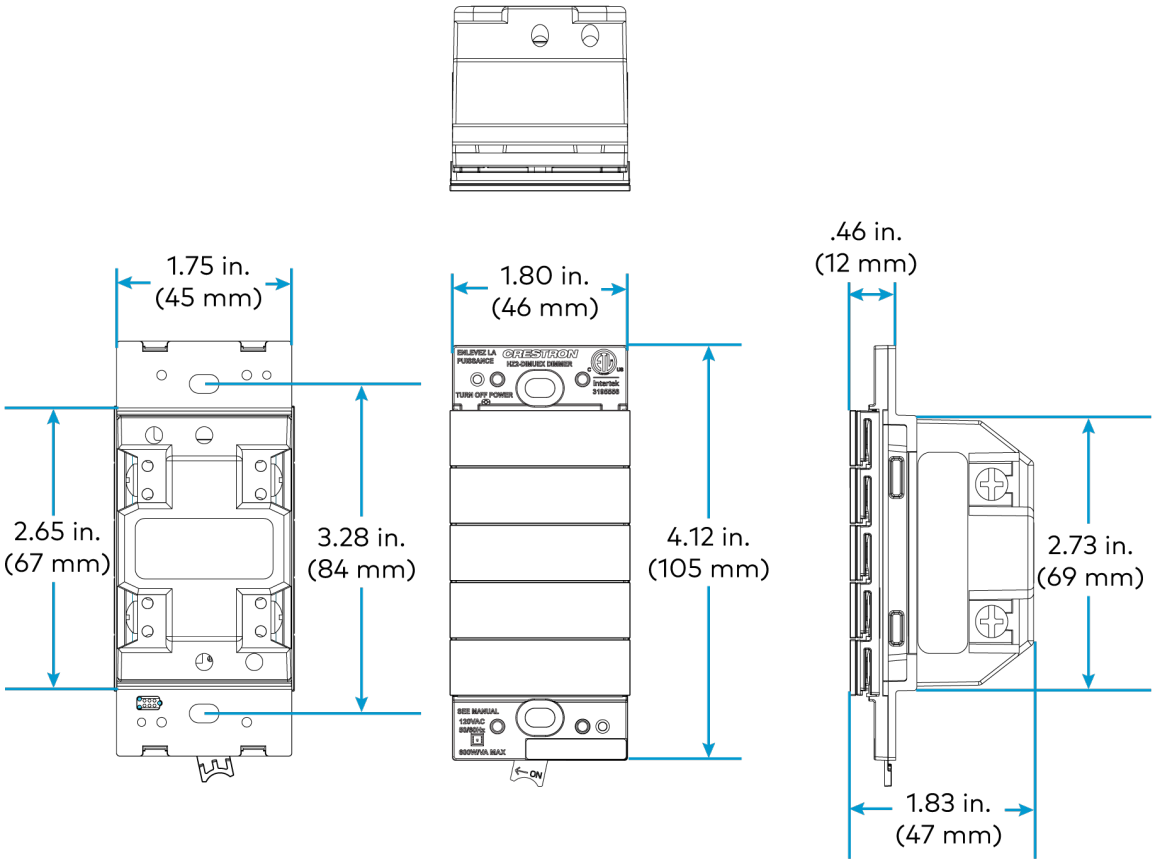
HZ2-DIMEX Glass and Metal



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