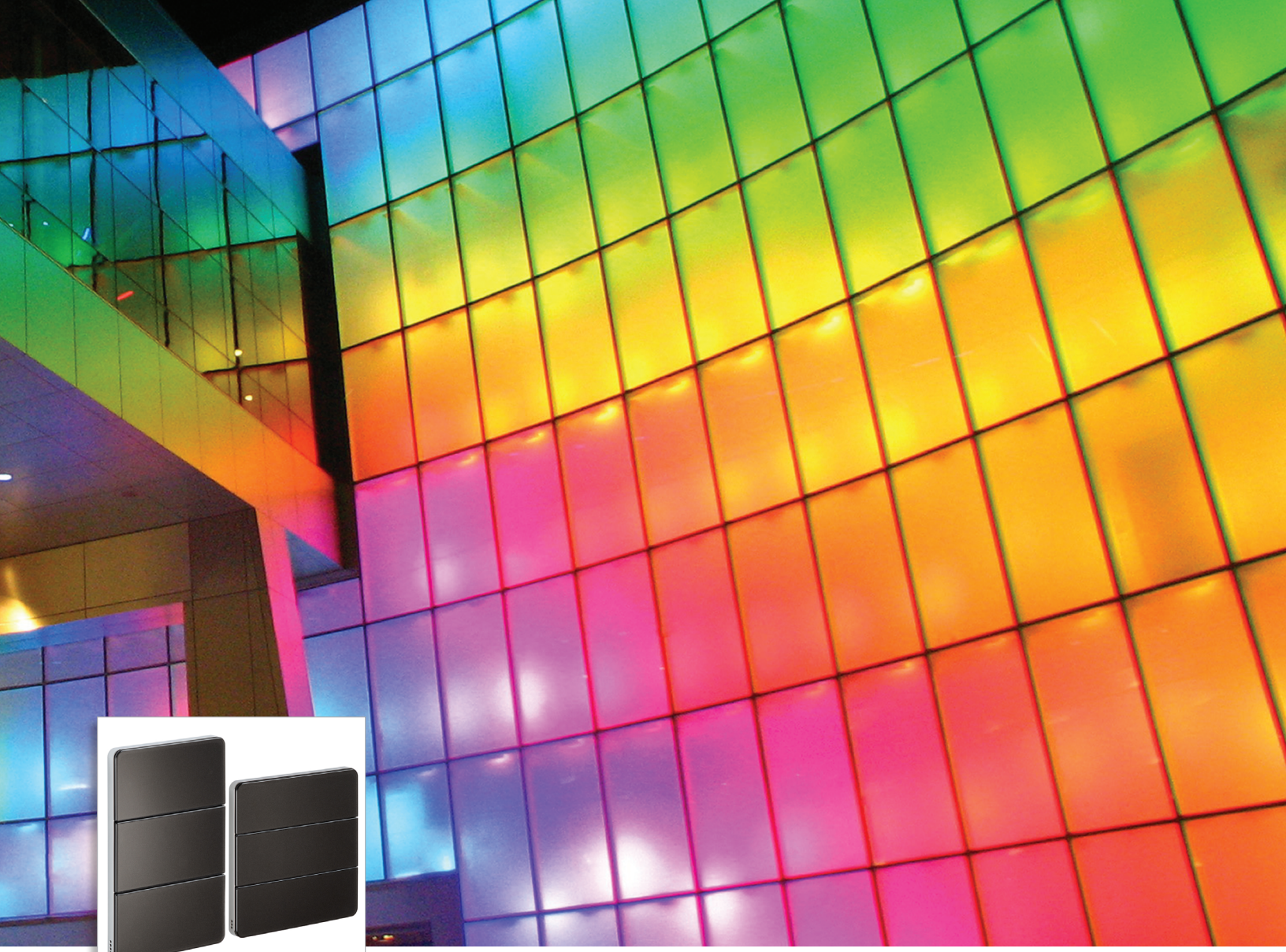


Antumbra Ethernet Keypad

Wall-mounted keypad that triggers up to six shows on Ethernet networks

PHILIPS

COLOR KINETICS

Antumbra Ethernet Keypad

Wall-mounted keypad that triggers up to six shows on Ethernet networks

Antumbra Ethernet Keypad is a compact keypad that triggers up to six Light System Manager, ColorDial Pro, or Antumbra iColor Keypad light shows at the touch of a button. When used with Light System Manager, Antumbra Ethernet Keypad lets you easily trigger shows in multiple zones or locations. Antumbra Ethernet Keypad uses Power over Ethernet (PoE) technology to eliminate the need for a separate power source, affording greater freedom of placement, higher reliability, and easy installation.

- Field effect technology—The user interface detects an approaching user and "wakes up," initiating a wall-washing lighting effect on the Antumbra panel to encourage interaction.
- Supplied as two components—The Application Module contains buttons, rim, base, and mounting plate, which are available in a variety of colors and materials to suit décor. The Ethernet Communication Module contains all of the logical and network functions and can be pre-programmed off-site, allowing commissioning to commence prior to finish options being finalized.
- Fingertip dimming and on/off control—Easily adjust brightness of connected lights, or turn them on and off. The AntumbraTouch interface is made of a single, easy-to-clean glass panel, and a soft beep lets you know that the keypad was pressed. The AntumbraButton interface is made of removable buttons, providing tactile feedback that lets you know that the button was pressed.
- Multiple language and icon labeling options—Button labeling language choices include English, Chinese, and Arabic. A library of common icons transcends language barriers, which is particularly useful in hospitality applications.

Multiple Keypads in Light System Manager Installations

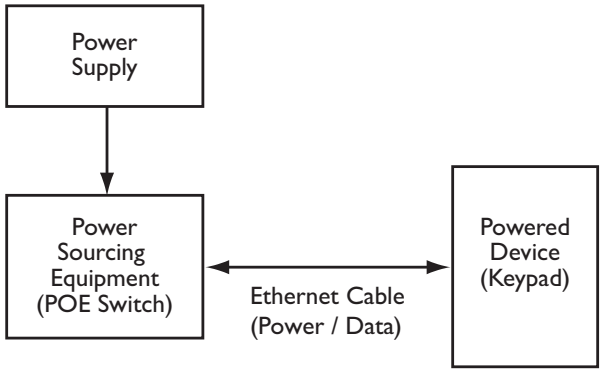
With Light System Manager, you can install up to 16 Antumbra Ethernet Keypads to control as many as 96 light shows in a single zone or location. You can control even more shows across multiple zones in Light System Manager.

The Power of Power over Ethernet

The IEEE 802.3af standard for Power over Ethernet (PoE) enables both electrical power and data to be transmitted over a single twisted-pair cable. Antumbra Ethernet Keypad is a PoE-compliant powered device that offers you convenience, increased flexibility, and simplified and inexpensive installation.

A New Standard of Flexibility

You can provide power to Antumbra Ethernet Keypad in one of two ways: with a PoE-compliant Ethernet switch, or with a standard Ethernet switch and PoE injector. Regardless of which method you use, you can position each Antumbra Ethernet Keypad up to 100 m (328 ft) from the switch. Because power is delivered over the same wire as the data, you do not need to use additional wiring or position the keypad near an external power source.



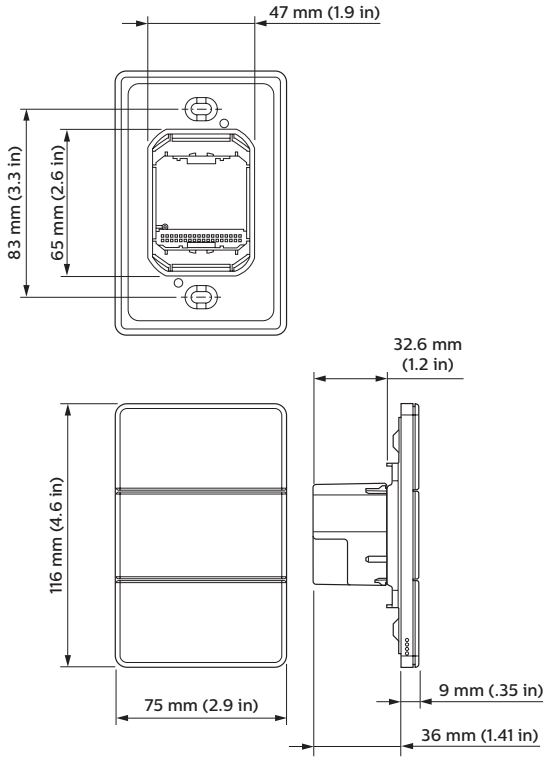
If you're using a PoE switch, you simply connect Antumbra Ethernet Keypad to an available port on the switch using a standard Ethernet cable. If you're using a non-PoE switch, you must also attach a PoE injector to the Ethernet cable. You can position the PoE injector near the switch to keep the power and data sources together in the same location, and to give you maximum flexibility in positioning the keypad in a convenient location.

AntumbraButton Ethernet Keypad Specifications

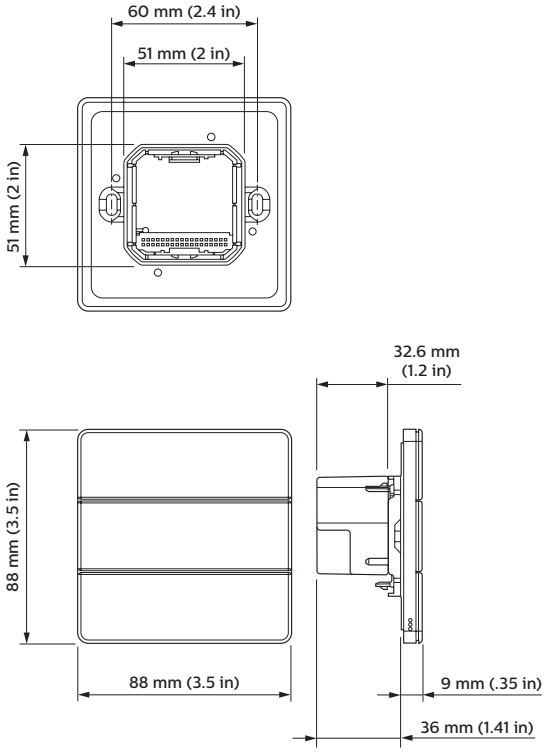
Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification		Details
Control	Ethernet		Supports 10/100 Mbps full- or half-duplex from any PoE- or IEEE 802.3af-compliant Ethernet switch. PoE injector required for use with non-IEEE 802.3af-compliant switches.
Electrical	Input Power		3 W maximum via PoE
Physical	Dimensions *(Height x Width x Depth)*	UL	116 x 75 x 45 mm (4.6 x 3.0 x 1.8 in)
		CE	88 x 88 x 45 mm (3.5 x 3.5 x 1.8 in)
	Weight	UL	160 g (5.6 oz)
		CE	148 g (5.2 oz)
	Housing		Medium matte white plastic enclosure
	Connector/Cable		RJ45 Port, shielded Cat. 5e or better data cable (not included)
	Operating Temperature		-5° – 50° C (23° – 122° F)
	Humidity		0 – 90%, non-condensing
Certification and Safety	Approbation		UL/cUL, CE, CQC, FCC Class A, C-Tick
	Environment		Indoor Rated, IP20

AntumbraButton Ethernet Keypad, UL



AntumbraButton Ethernet Keypad, CE

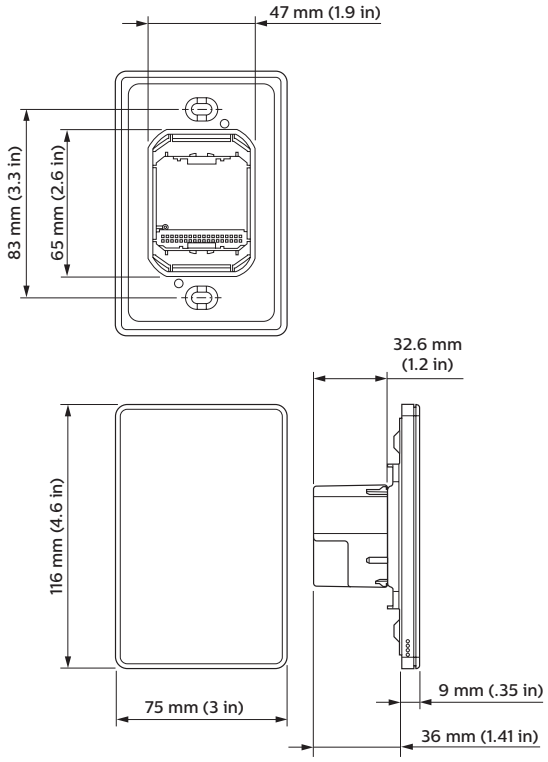


AntumbraTouch Ethernet Keypad Specifications

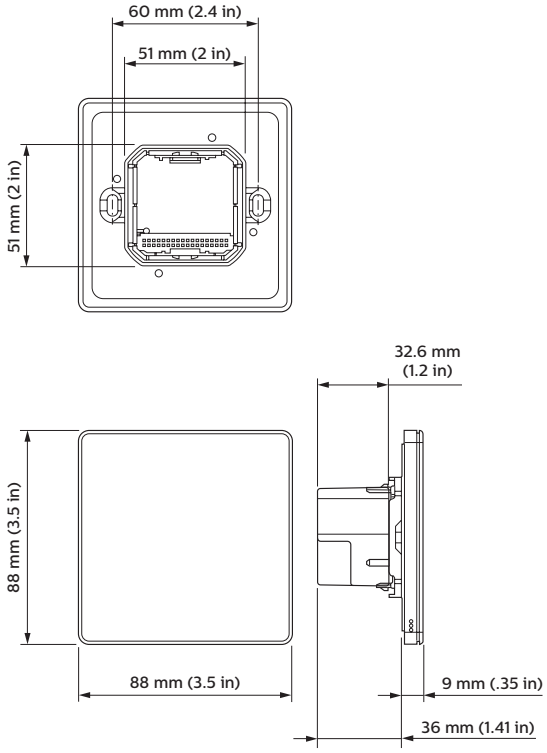
Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification		Details
Control	Ethernet		Supports 10/100 Mbps full- or half-duplex from any PoE- or IEEE 802.3af-compliant Ethernet switch. PoE injector required for use with non-IEEE 802.3af-compliant switches.
Electrical	Input Power		3 W maximum via PoE
Physical	Dimensions *(Height x Width x Depth)*	UL	116 x 75 x 45 mm (4.6 x 3.0 x 1.8 in)
		CE	88 x 88 x 45 mm (3.5 x 3.5 x 1.8 in)
	Weight	UL	180 g (6.4 oz)
		CE	170 g (6.0 oz)
	Housing		Medium matte white plastic enclosure
	Connector/Cable		RJ45 Port, shielded Cat. 5e or better data cable (not included)
	Operating Temperature		-5° – 50° C (23° – 122° F)
	Humidity		0 – 90%, non-condensing
Certification and Safety	Approbation		UL/cUL, CE, CQC, FCC Class A, C-Tick
	Environment		Indoor Rated, IP20

AntumbraTouch Ethernet Keypad, UL



AntumbraTouch Ethernet Keypad, CE

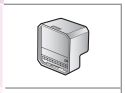


Ordering Information

A complete control system includes the Antumbra Application Module (which consists of the buttons or fascia, the rim, and a mounting plate), the Ethernet Communication Module, and a Power-Over-Ethernet-compliant switch.

Ethernet Communication Module and Accessories

Select item numbers for the Ethernet Communication Module and accessories from the following table. Include these item numbers when submitting your final order.

Item		Item Number	Philips 12NC	
Ethernet Communication Module		103-000041-00	912400133666	
Power over Ethernet Switch	4 Power over Ethernet ports, 8 ports total	120-000084-01	910503702557	
Power over Ethernet Injector	North America Power Cord	109-000029-00	910503700383	
	Europe Power Cord	109-000029-01	910503700384	

Use Item Number when ordering in North America.

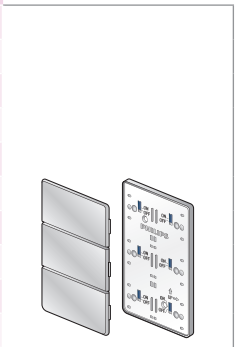
Custom Configurations

In addition to the standard configurations listed here, custom button labeling is also available. See the Antumbra Ethernet Keypad Ordering Information sheet at www.colorkinetics.com/ls/controllers/antumbra-button-ethernet-keypad/ for complete details.

Option	Details
Style	UL, CE
AntumbraButton Button Color	White, Silver, Magnesium, Aluminium
AntumbraButton Rim Color	White, Aluminium, Chrome, Magnesium
AntumbraTouch Fascia Color	White, Black
AntumbraTouch Rim Color	White, Aluminium, Chrome, Black
Custom Labeling Options	English, Chinese, or Arabic characters, or select from a library of common icons.

AntumbraButton Application Module Standard Configuration

Style	Button Color	Rim Color	Item Number	Philips 12NC
UL	White	White	PABPA-WW-X	913703431307
	White	Aluminium	PABPA-WA-X	913703431407
	White	Chrome	PABPA-WC-X	913703431507
	White	Magnesium	PABPA-WM-X	913703431607
	Silver	White	PABPA-SW-X	913703431707
	Silver	Aluminium	PABPA-SA-X	913703431807
	Silver	Chrome	PABPA-SC-X	913703431907
	Silver	Magnesium	PABPA-SM-X	913703432007
	Magnesium	White	PABPA-MW-X	913703432107
	Magnesium	Aluminium	PABPA-MA-X	913703432207
	Magnesium	Chrome	PABPA-MC-X	913703432307
	Magnesium	Magnesium	PABPA-MM-X	913703432407
	Aluminium	Aluminium	PABPA-AA-X	913703971707
	Aluminium	Chrome	PABPA-AC-X	913703971807
	Aluminium	Magnesium	PABPA-AM-X	913703971907
CE	White	White	PABPE-WW-X	913703430107
	White	Aluminium	PABPE-WA-X	913703430207
	White	Chrome	PABPE-WC-X	913703430307
	White	Magnesium	PABPE-WM-X	913703430407
	Silver	White	PABPE-SW-X	913703430507
	Silver	Aluminium	PABPE-SA-X	913703430607
	Silver	Chrome	PABPE-SC-X	913703430707
	Silver	Magnesium	PABPE-SM-X	913703430807
	Magnesium	White	PABPE-MW-X	913703430907
	Magnesium	Aluminium	PABPE-MA-X	913703431007
	Magnesium	Chrome	PABPE-MC-X	913703431107
	Magnesium	Magnesium	PABPE-MM-X	913703431207
	Aluminium	Aluminium	PABPE-AA-X	913703971407
	Aluminium	Chrome	PABPE-AC-X	913703971507
	Aluminium	Magnesium	PABPE-AM-X	913703971607



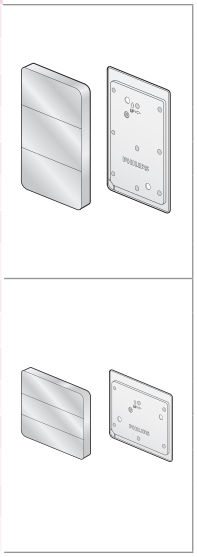
Use Item Number when ordering in North America.

For more information on how to buy Philips Color Kinetics LED lighting systems, www.colorkinetics.com/ls/howtobuy/

For more information on how to buy Philips Color Kinetics LED lighting systems, www.colorkinetics.com/ls/howtobuy/

AntumbraTouch Application Module Standard Configuration

Style	Button Color	Rim Color	Item Number	Philips 12NC
UL	White	White	PATPA-WW-X	913703447207
	White	Aluminium	PATPA-WA-X	913703447307
	White	Chrome	PATPA-WC-X	913703447407
	White	Black	PATPA-WB-X	913703447507
	Black	White	PATPA-BW-X	913703447607
	Black	Aluminium	PATPA-BA-X	913703447707
	Black	Chrome	PATPA-BC-X	913703447807
	Black	Black	PATPA-BB-X	913703447907
CE	White	White	PATPE-WW-X	913703432907
	White	Aluminium	PATPE-WA-X	913703433007
	White	Chrome	PATPE-WC-X	913703433107
	White	Black	PATPE-WB-X	913703433207
	Black	White	PATPE-BW-X	913703433307
	Black	Aluminium	PATPE-BA-X	913703433407
	Black	Chrome	PATPE-BC-X	913703433507
	Black	Black	PATPE-BB-X	913703433607



Use Item Number when ordering in North America.

Installation

Antumbra Ethernet Keypad can be installed in any Ethernet lighting installation using devices that support KiNET, the Ethernet lighting protocol from Philips Color Kinetics. Each Antumbra Ethernet Keypad button triggers a light show from your Light System Manager, Antumbra iColor Keypad, or ColorDial Pro controller.

Antumbra Ethernet Keypad requires data and power over a single Ethernet connection. A PoE-compliant Ethernet switch delivers both data and power over a Cat. 5e or better data cable. Installations with non-PoE switches require a PoE-compliant power source, such as the PoE Injector.

Owner/User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate Antumbra Ethernet Keypad in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Refer to the Antumbra Ethernet Keypad Installation Instructions for specific warning and caution statements.

Prepare the Installation

The positioning of Antumbra Ethernet Keypad is generally determined by the installation configuration, especially the locations of fixtures and power sources. Because Antumbra Ethernet Keypad does not need to be wired to a power source, it can be installed in a convenient and unobtrusive location.

Create a layout plan that starts with the location of the Ethernet switch and, if applicable, the PoE injector(s). Include all controllers, leader cables, shielded Cat. 5e or better data cables, and fixtures. If using a PoE-compliant Ethernet switch, ensure that a switch with an available port is installed in the lighting system. If using a non-PoE Ethernet switch, plan to install the required PoE injector(s) near the switch.

Assemble additional items:

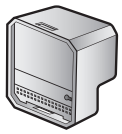
- One Cat. 5e or better data cable (shielded twisted pair with an RJ45 connector, to a maximum length of 100 m or 328 ft) to connect Antumbra Ethernet Keypad to an available port on a PoE-compliant Ethernet switch or to a PoE injector.
- If using a PoE injector, an additional shielded Cat. 5e or better cable to connect the injector to the Ethernet switch, and a power cord to connect the injector to a power source. Refer to the PoE injector's installation or user guide for complete installation instructions.
- If installing Antumbra Ethernet Keypad in a junction box in North America, you must use a UL-listed low-voltage junction box for Class II equipment. You can also install the keypad in a multi-gang wall box, or you can flush-mount it using the mounting holes at the top and bottom of the keypad, as allowed by applicable electrical codes at your location.

We recommend using a shielded Cat. 5e or better Ethernet cable with your Antumbra Ethernet Keypad.

Included in the box

- Ethernet Communication Module*
- Installation Instructions

*Antumbra panel ships separately

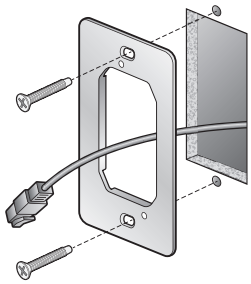


Inspect the Ethernet Communication Module

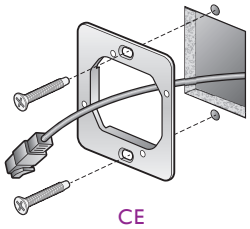
Carefully inspect the box containing the Ethernet Communication Module and its contents for any damage that may have occurred in transit.

Mount and Connect the Keypad

1. Secure the installation bracket to the mounting surface in accordance with local electrical codes, using the two longer screws provided with the Application Module.

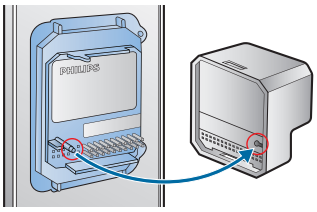


UL

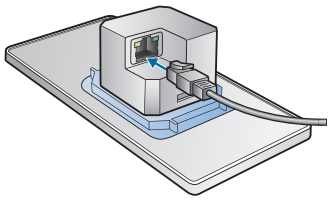


CE

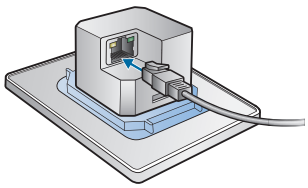
2. Mount the Ethernet Communication Module by snapping it into the back of the Application Module. Use the locating pins to ensure the correct orientation of the two modules.



3. Connect one end of a shielded Cat. 5e Ethernet network cable to the back of the Ethernet Communication Module.

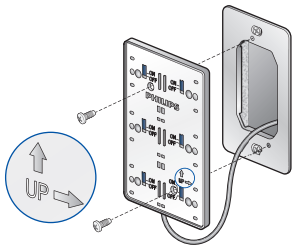


UL

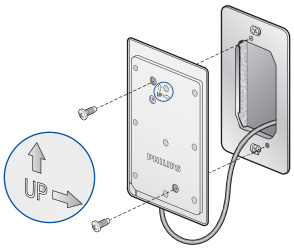


CE

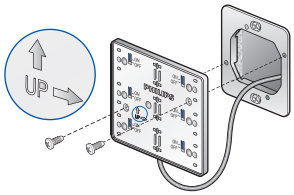
4. Secure the base of the panel to the mounting plate using the shorter screws provided. Ensure that the base is correctly oriented before installing it to the mounting plate by aligning the arrow in the UP position.



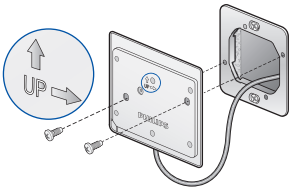
AntumbraButton, UL



AntumbraTouch, UL



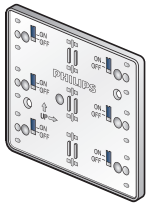
AntumbraButton, CE



AntumbraTouch, CE

5. **AntumbraButton:** Lock any buttons you do not want to use on the switch.
   ON = Button is available for use (unlocked).
   OFF = Button is not available for use (locked).

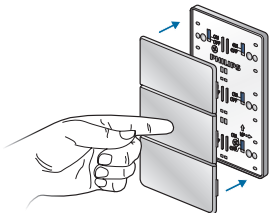
AntumbraButton, UL



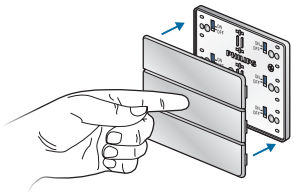
AntumbraButton, CE

Keep all four corner switches set to ON so that you can later lock and unlock the installed keypad.

6. **AntumbraButton:** Snap the buttons to the base, pressing on the center of each button.

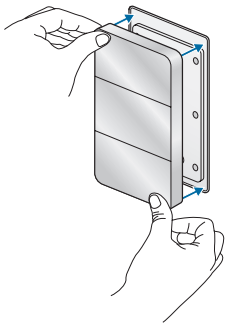


AntumbraButton, UL

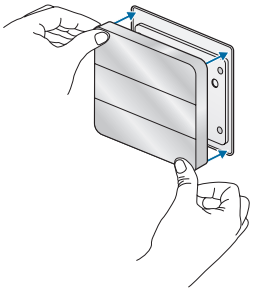


AntumbraButton, CE

AntumbraTouch: Snap the panel to the base, pressing on the four corners.



AntumbraTouch, UL

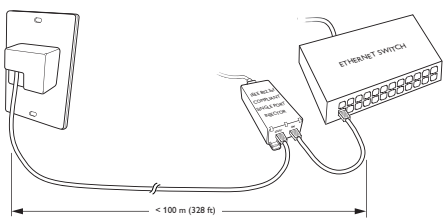


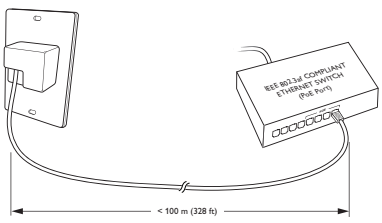
AntumbraTouch, CE

Make Cable Connections

Connect the other end of the Cat. 5e Ethernet network cable to the Power over Ethernet source. Now that power reaches the switch, verify that the keypad is illuminated.

If using a non-PoE Ethernet switch, connect the shielded Cat. 5e Ethernet or better data cable to the output port on a PoE injector. The PoE injector must be connected to the Ethernet switch and an AC outlet in accordance with the manufacturer's installation instructions.





Configuring Antumbra Ethernet Keypad

After it is installed and connected to your lighting network, you must configure Antumbra Ethernet Keypad to work with your controller.

Download QuickPlay Pro at www.colorkinetics.com/ls/controllers/quickplaypro/

Changing Configuration Options Using QuickPlay Pro

Use QuickPlay Pro to configure the following Antumbra Ethernet Keypad options:

Setting	Description
Name	Descriptive name to differentiate this keypad from other devices on the lighting network.
IP Address	The local IP address of this keypad on the lighting network.
KiNET Universe	This value must match the KiNET universe of the power/data supplies that this keypad is connected to.
Button Mode	This setting controls Antumbra Ethernet Keypad button behavior. The following modes are available.
	6 Shows on/off Shows are assigned to all six buttons. • Press the active button to turn the show lights off. • Dimming functionality is disabled on this keypad.
	4 Shows discrete dimming Shows are assigned only to the buttons in the top two rows. • Press and release the active button to turn show lights off. • Press the lower left or lower right button to increase or decrease brightness of show lights, respectively.
	6 Shows hold to dim Shows are assigned to all six buttons. • Press and release the active button to turn show lights off. • Press and hold the active button to alternate between increasing and decreasing brightness of show lights.
Sound on Keypress	Applies to AntumbraTouch Ethernet Keypad only. Enable this setting to set the keypad to beep when a button is pressed. Disable to turn this beep off.
Night Mode	Enable this setting to allow the backlight to glow in a dim environment when the keypad is not in use. Disable to turn off the backlight completely when the keypad is not in use.
Panel Lockout	Enable this setting to lock the keypad. Disable to unlock the keypad.
Proximity Sensor	Enable this setting to turn the Proximity Sensor on. Disable to turn the Proximity Sensor off.

When Night Mode is enabled, users will be able to find the keypad in a dark room.

Adding to Light System Manager Installations

If Antumbra Ethernet Keypad is used in installations controlled by Light System Manager, the keypad must be added in the Light System Engine web interface. For instructions on how to do this, refer to the "Working with Keypads" section in the *Light System Manager User Guide*, as well as "Understanding the Button Numbering Scheme" on page 12 of this guide.

Using Antumbra Ethernet Keypad

- Press and release a button to play the show or scene assigned to that trigger.
- Press and release the active button to turn show lights off.
- Use the dimmer controls to adjust the brightness of the show lights from 0% – 100%. By default, dimmer controls are used by pressing and holding the active button. If button mode has been set to 6 Shows On/Off, dimming functionality is disabled on that Antumbra Ethernet Keypad.

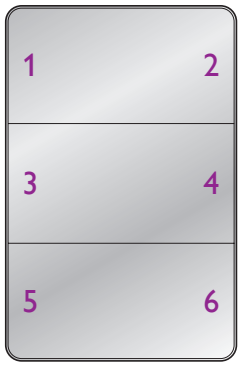
Dimming controls must be configured on the controller that your Antumbra Ethernet Keypad is connected to. Unless set to behave differently, the active show button also controls dimming functionality.

Understanding the Button Numbering Scheme

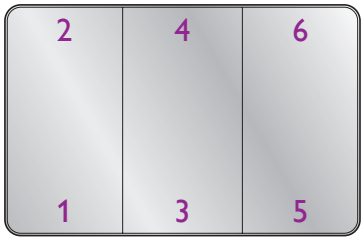
Because Antumbra Ethernet Keypad triggers actions on another controller on your lighting network, it is helpful to understand the keypad button numbering scheme.

The figures below illustrate Antumbra Ethernet Keypad button numbering in portrait orientation and landscape orientation. Refer to these figures to determine how Antumbra Ethernet Keypad buttons will map to other controllers on your lighting network.

Antumbra Ethernet Keypad can trigger the first six buttons of any compatible controller.

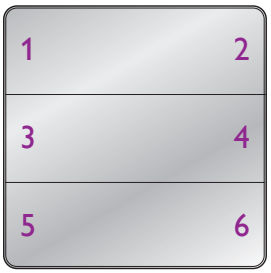


UL, Portrait Orientation

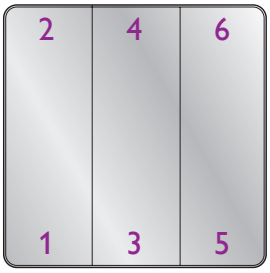


UL, Landscape Orientation

A keypad in landscape orientation is rotated 90° counterclockwise from the default orientation. Refer to "Mount and Connect the Keypad" on page 9 for more information on proper keypad orientation.



CE, Portrait Orientation



CE, Landscape Orientation

Keypad Maintenance

Clean the keypad faceplate and buttons with a soft, damp cloth.

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