Antumbra

Next Generation User Interface for the powerful Dynalite Network

User Guide

Version 3.0
Background

Philips Dynalite is a highly specialized company whose principal occupation is to provide ‘cutting edge’ solutions for lighting control. Our achievements have been recognized worldwide and Philips Dynalite is generally the system of choice for projects involving integration with third-party vendor’s equipment and for large-scale applications.

Philips Dynalite’s philosophy is to provide the best solution possible for each and every project. This is the key to our success. Our considerable investment in Research & Development ensures that we remain at the forefront of our industry. Our position as a world leader in lighting management systems for the future is sustained through our total commitment to innovation.

We are represented around the world by distributors and dealers who are handpicked for their ability to provide the highest possible level of service.

From a stock exchange in Shanghai, to a luxury resort in Dubai, a smart home in Sao Paulo to limestone caves in New Zealand, Philips Dynalite’s innovative solutions deliver intelligent light.

Ongoing research and development has enabled Philips Dynalite to create secure automated systems that control tens of thousands of individual light fittings in high-rise office buildings from any location anywhere in the world. Our networks are engineered to deliver instant notification of power or system failure, and report via a LAN, internet, or through an SMS gateway to a mobile phone. This provides the assurance necessary in applications where continuous operation is vital, such as road tunnels, computer servers or cold storage units.

Philips Dynalite’s modular product design philosophy also improves system flexibility. Through this approach, specific application requirements can be accommodated with greatly reduced lead times. As an industry leader Philips Dynalite is committed to creating superior lighting control and energy management systems, setting new benchmarks in performance and efficiency.

In receiving the International Association of Lighting Designers award for Most Innovative Product, the Philips Dynalite control system has been independently recognized as ‘A user friendly and sensible modular approach, which takes it from sophisticated domestic settings to large architectural spaces’.
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About this guide

Overview

This guide is designed to assist in the configuration and installation of Antumbra Panels.

A working knowledge of EnvisionProject and Dynalite commissioning processes is required to effectively use this document.

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Product Overview

Philips Dynalite launches Antumbra Panel Series that has the most unique features and has revolutionized the way a people interact with the user interface. Antumbra redefines any pre-conceptions of what a user interface keypad or panel can be and how a user can intuitively interact with it to control the lighting system.

Antumbra Panel series has been designed to suit both residential and commercial markets. The Antumbra Panel series consists of the following types of panels:

- Antumbra Button
- Antumbra Touch
- Antumbra Display

Each button on the Antumbra panel can be configured using the EnvisionProject commissioning software to perform a vast range of functions.

The contemporary design of the Antumbra panel incorporates multiple sensors that are used to perform advance functions like ambient light sensing and temperature sensing.

The Antumbra Button panel consists of three sensors.

Proximity sensor
The Proximity sensor utilizes capacitive field effect technology to detect motion when the user approaches the panel it activates a lightwash onto the wall around the panel welcoming the user towards the panel.

Ambient light sensor
The Ambient light sensor senses the ambient light condition around the panel and can be used to automatically adjust the LED and lightwash brightness.

Temperature sensor
The temperature sensor is used to determine the temperature of the room where the panel is mounted.

The Antumbra Panel series is one of the most flexible user interface solutions available in the market. The advanced flexibility is achieved by dividing the panel into two components namely DyNet Antumbra Communication Module and Antumbra Application Module. The different types of modules connect together to form the solution for the Antumbra Panel series.
Antumbra Button Panel Hardware

The Antumbra Button Panel has a RS485 DyNet serial port and is classified as a Class 2 Safety Extra Low Voltage device.

The Antumbra Button panel is available in White, Silver and Magnesium button finishes.

To complement these button finishes, the rim finishes for the buttons are available in White, Magnesium, Chrome and Aluminium providing a wide range of décor matching possibilities. It is available in both Europe (EU) and North American (NA) styles.

Figure 1 - Antumbra Button Panel EU
The Antumbra Panel has six configurable tactile buttons. They can be configured through EnvisionProject commissioning software to be used as panels having 1 to 6 buttons. The same hardware can be used as a one button panel and up to a six button panel. When buttons are not used, enable/disable catches can be used to remove the tactile feel on the buttons.

Customised labelling of icons and engraved text is available for each panel.
Features of Antumbra Button Panel

- Qualitative tactile big buttons for tactile feel
- Enable/disable catches
- Seamlessly hidden LED indicators for every button
- Proximity sensing up to 15cm
- Lightwash effect
- Temperature sensing
- Ambient light sensing through hidden window
- Scratch resistant up to 2H pencil hardness
- IP22 rated
- Mountable in portrait and landscape orientations
- Mountable in standard mounting wall boxes.

Figure 3 - Antumbra Button Panel
Features of Antumbra Touch Panel

- Sleek Glass front
- Light touch feel (Capacitive sensing)
- Audio feedback
- Seamlessly hidden LED indicators
- Proximity sensing up to 15cm
- Lightwash effect
- Temperature sensing
- Ambient light sensing
- IP22 rated
- Impact –resistant glass surface
- Mountable in portrait and landscape orientations
- Mountable in standard mounting wall boxes
Lightwash Effect

The Antumbra Panel responds to a person’s presence with a welcoming ring of light around it to indicate the panel’s location in low light environments. A built-in light level sensor ensures the lightwash effect is set to a comfortable level with respect to the current room lighting. The lightwash effect can be disabled through EnvisionProject software. The lightwash effect is displayed in the figure below:

Figure 4 - Antumbra Panel with Light-Wash effect

LED Indicators

Programmable indicators appear on the Antumbra Panel as the user approaches the panel, showing the location of configured buttons on the panel. As the user moves away the LED indicators fade and become invisible on the panel. The brightness of these indicators can be configured using EnvisionProject.

Figure 5 - LED Indicators on Antumbra Button Panel
Structure of Antumbra Button Panel

The Antumbra Button Panel Application Module unit is made up of six configurable buttons, six LED indicators, six back light LEDs, a temperature sensor, a daylight sensor and a proximity sensor.

All the six buttons have an enable/disable catch that can be used to enable/disable the tactile feel of the buttons on the panel.

The panel can be mounted in both portrait and landscape orientations. Ensure the holes on the rim are located at the bottom of the panel for easy air flow that help in temperature sensing. Refer to the Application Module Front View image to mount the panel in the right orientation. The arrows indicate the side that has to be at the top when the panel is mounted.
Product Architecture of Antumbra Button panel

The Antumbra panel product is made up two components namely the Application Module and Communication Module. These two components come together to form the Antumbra panel.

Application Module

The Application Module is made of protective cover, buttons, rim, base unit and the mounting plate. The buttons and rims in the Antumbra Button panel come in different colours and finishes. The button is available in White, Silver and Magnesium and the rim is available in White, Magnesium, Chrome and Aluminium.

The rim has built-in ventilation for fast acting response from the temperature sensor.

The Base unit contains all the sensor devices and the LEDs. It includes the proximity sensor, the day light sensor and the temperature sensor. The LEDs are used to provide backlight to the configured buttons on the panel. This unit also produces the light wash effect around the panel. All the parts of the Antumbra Button panel plug into the application unit.

Note: To remove the buttons from the panel, lift the button sides on the left side and the right side of the panel before lifting the button at the centre.
Structure of the Antumbra Touch Panel

The Antumbra Touch Panel Application Module unit is made up of six configurable touch points, six LED indicators, six back light LEDs, a temperature sensor, a daylight sensor and a proximity sensor.

**Note:** The middle three LEDs on the panel are not available for selection.

The panel can be mounted in both portrait and landscape orientations. Ensure the holes on the rim are located at the bottom of the panel for easy air flow that help in temperature sensing. The arrows indicate the side that has to be at the top when the panel is mounted.
Product Architecture of Antumbra Touch Panel

The Antumbra Touch panel product is made up two components namely the Application Module and Communication Module. These two components come together to form the Antumbra Touch panel.

The Application Module is made of protective cover, touch panel, base unit and the mounting plate. The touch surface and rims in the Antumbra touch panel come together as a single component. The Glass Fascia Assembly is available in White and Black colour. The rim is available in White, Black, Chrome and Aluminium finish.

The rim has built-in ventilation for fast acting response from the temperature sensor.

The Application unit contains all the sensor devices and the LEDs. It includes the proximity sensor, the day light sensor and the temperature sensor. The LEDs are used to provide backlight to the configured buttons on the panel. This unit also produces the light wash effect around the panel. All the parts of the Antumbra touch panel plug into the application unit.

The communication module is common across all the Antumbra panels.
Communication Module

The DyNet communication module is common across all the Antumbra Panel series. It contains all the logical and network functions that are used to communicate in a DyNet environment.

The communications module contains all the settings of the panel and manages the communication to the DyNet network.

The communication module can be pre-programmed using the EnvisionProject commissioning software without the application module. For example, for hotel room projects where the number of different panel configurations are known, the same software settings can be programmed on all the Comms Modules and the installer while installation has to only configure it to the required area. It consists of 6 DIP switches that can be used to make large scale project commissioning simple. Also the front of the Comms Module, has a small white space that can be used by the installer to mark notes on the module.

The service switch can be used to test the network. A long press resets the Comms Module and a short press sends a sign-on message on to the DyNet network.

For more information regarding communication module termination and operation can be found under the topic Network Termination.
Configuration of Antumbra Panels

The Antumbra Button Panel is a programmable user interface with 6 configurable inputs. The following configuration pages are available in EnvisionProject:

- Device Properties
- Buttons
- Proximity Sensor
- Light Control
- Area Cascading
- Tasks and Events
- Comm Ports
- Product Details

Adding the Antumbra Panel to EP

Add the Antumbra Button Panel to your project using one of the standard two methods:

- Load the device from network
- Insert the device from list

The two types of Antumbra Button Panels available in EP are:

- PABPA – Australian style
- PABPE – European style

The two types of Antumbra Touch Panels available in EP are:

- PATPA6 – Australian style
- PATPE6 – European style

Figure 11 - Context Menu
Once the Antumbra panel has been added to the project, the product is displayed in the Network View tree. If the Antumbra panel has been added in the Physical view, it appears in both Physical and Network views.

![Figure 12 - Network View](image)

When the Antumbra Panel is selected, you can access the common device functions from the Network/Physical tool bar menu or by right-clicking the name of the panel to open the Context menu.

**Device Properties of Antumbra Button Panel**

The Device Properties Page displays basic and advanced information about the Antumbra Button Panel. The following buttons are available on the toolbar.

Displayed fields can be sorted in one of two ways by using the following buttons:

- **Categorized**
- **Alphabetically**

Initially only the basic fields are shown. To reveal all fields, click the **Advanced** button.

The list can be filtered by entering a property name in the **Filter** box.
Panel Data

The Antumbra Panel specific settings are located in the Panel data section:

**Native Logical Area**
Logical Area where the panel is located

**Native BLA**
The Base Link Area number where the panel is located

**Logical Channel**
The logical channel the panel is assigned to.

**Native Join**
The static join of the panel

Temperature Sensor

**Control**
Enables temperature Sensor

**Logical Area**
Logical Area where the panel is located
Broadcast Temperature
If enabled, the panel broadcasts temperature to the network periodically.

Measured temperature offset
Co-efficient used to decide the current temperature from the measured temperature. It is an offset that is applied for the measured temperature. The broadcasted temperature will contain the offset along with the measured temperature.

Min trigger time
The time the panel has to wait between each broadcasting even if temperature change is greater than delta value. This is to prevent frequent broadcast of temperature over the network.

Max trigger time
The time the panel takes to broadcasts the current temperature even if the temperature change is less the defined delta value.

Delta value (°C)
The offset defined for variation in temperature. If the measured temperature is greater than the delta value the temperature is broadcasted. The temperature is broadcasted when the minimum trigger is expired.

BLA
The Base Link Area number where the panel is located

Logical Channel
The logical channel that panel is assigned to.

Join
The static join of the panel.
Device Properties of Antumbra Touch Panel

The Device Properties Page displays basic and advanced information about the Antumbra Button Panel.

![Device Properties of Antumbra Touch Panel](image)

**Panel Data**

The Antumbra Panel specific settings are located in the Panel data section:

**Native Logical Area**

Logical Area where the panel is located

**Native BLA**

The Base Link Area number where the panel is located

**Logical Channel**

The logical channel that panel is assigned to.
**Native Join**
The static join of the panel.

**Temperature Sensor**

**Control**
Enables the temperature Sensor

**Logical Area**
Logical Area where the panel is located

**Broadcast Temperature**
If enabled, the panel broadcasts temperature to the network periodically.

**Measured temperature offset**
Co-efficient used to decide the current temperature from the measured temperature. It is an offset that is applied for the measured temperature. The broadcasted temperature will contain the offset along with the measured temperature. This value is set to -0.5 for Antumbra Touch panels.

**Min trigger time**
The time the panel has to wait between each broadcasting even if temperature change is greater than delta value. This is to prevent frequent broadcast of temperature over the network.

**Max trigger time**
The time the panel takes to broadcasts the current temperature even if the temperature change is less the defined delta value.

**Delta value ('C)**
The offset defined for variation in temperature. If the measured temperature is greater than the delta value the temperature is broadcasted.

**BLA**
The Base Link Area number where the panel is located

**Logical Channel**
The logical channel that panel is assigned to

**Join**
The static join of the panel.

**Buzzer**

**Control**
Enables/Disabled. When enabled the buzzer is activated.

**Logical Area**
Logical Area where the panel is located
**BLA**
The Base Link Area number where the panel is located

**Logical Channel**
The logical channel that panel is assigned to

**Join**
The static join of the panel.

**Note:** Buzzer feature is available only for Antumbra Touch Panels.
Buttons

The Buttons Page displays the Button Editor. Selecting a button enables you to specify the button functions and the type of press/release action that will trigger each function.

General

The properties under the General category are global properties that are applicable for all the six input button LED indicators.

Indicator LED

Enable/Disable all the indicator LEDs. Select the color of the Panel you are configuring through the Color drop down. Selecting the color of the panel automatically calibrates the sensors in the panel.

The colors available for Antumbra Button panel are White, Black.
and Silver.
The colors available for Antumbra Touch panel are White and Black.

**Logical Address**

*Logical Area*
The Logical Area where the panel is located.

*Logical Channel*
The logical channel that panel is assigned to

*Join*
Static join of the panel.

*BLA*
Base Link Area number where the panel is located.

**General**

*Buiton*
Enable/Disable the button on the panel.

*Enable when panel disabled*
True/False. Function is still available in panic mode. The button is enabled when panel is disabled.
Function

You can select the input function for an Antumbra Button Panel from the following choices:

- Advanced
- Channel Level
- Custom
- One Touch
- Preset
- Ramp
- Task
- No function

Sub functions

Advanced
- **Sign-on**

Checks the functionality of the button by sending a DyNet message on to the network.

**Event Control**

- **Control type**
  Enable/Disable/Triggers the event

- **Device Code**
  Used to identify the device

- **Box number**
  Used to identify the device

- **Event number**
  Number of the event on the device that will be triggered.

- **Panic**

**Panic**
True/False. True sets the panel to panic mode.

- **Fade time**
  The time taken by the panel to get into panic mode.
Panel enable/Disable

Enable Panel
True/False. Enables or disables panel

DyNet mute
Stop Dynet messages being created by this function

Set Join Level
Set Join Level can be used to set a dynamic join level of the specified area.

Join Level
Join level has a range between 0-255 and is used to set a dynamic join level

DyNet Logical messages

Opcode
Opcode of the logical message

Data1
First data byte

Data2
Second Data byte

Data3
Third data byte

DyNet Physical messages

Opcode
Opcode of the physical message

Data1
First data byte

Data2
Second Data byte

Data3
Third data byte

Channel Level
Level
Sets the percentage level of light on the channel

Fade
The time taken to reach the defined channel level

Off preset
Defines the off preset number for the area. It is used by LED tracking
**DyNet mute**
Stop Dynet messages being created by this function.

**Custom**
Allows you to select from any of the options in the Action Chain Editor

**Standard function name**
Enable/Disable Base Link Area

**Press actions**
Opens the Action Chain Editor

**Release actions**
Opens the Action Chain Editor

**Extended press actions**
Opens the Action Chain Editor

**Extended release actions**
Opens the Action Chain Editor
**One Touch**

**One touch ramp only**

*On Preset*
Defines the preset in ON state

*Off Preset*
Defines the preset in OFF state

*Fade*
Time taken to reach the preset level

*Ramp rate*
Time taken to ramp up to the required level

*Min Level*
Minimum light level that remains on the channel while ramping.

*DyNet mute*
Stop Dynet messages being created by this function.

**One touch ramp with program**

*On Preset*
Defines the preset in ON state

*Off Preset*
Defines the off preset number for the area

*Fade*
Time taken to reach the preset level

*Ramp rate*
Time taken to ramp up to the required level

*Min level*
Minimum light level that remains on the channel while ramping

*DyNet mute*
Stop Dynet messages being created by this function
**Toggle Preset**

**On Preset**
Defines the preset in ON state

**Off Preset**
Defines the preset in OFF state

**Fade**
Time taken to reach the preset level

---

**Reset Preset**

**Fade**
Time taken to reset the current preset

**DyNet mute**
Stop Dynet messages being created by this function

---

**Preset Offset**

**Preset Offset**
Moves the preset down to a number defined in the offset

**DyNet mute**
Stop Dynet messages being created by this function
Preset With Program

Preset
Set the preset in ON state

Fade
Time taken to reach the current preset

DyNet mute
Stop Dynet messages being created by this function

Ramp

Ramp up

Fade
Time taken to ramp up.

DyNet mute
Stop Dynet messages being created by this function

Ramp down

Min Level
Minimum level of light that remains when ramping down

Fade
Time taken to ramp down

DyNet mute
Stop Dynet messages being created by this function

Task
Task Local
Task local is a task that is executed on the local panel.

Control type
Controls the state of the task. The type of control can be a Start task, Pause task or Break task.

Task number
Defines the task number

Task Control
Task control executes a remote task on the network
**Control type**
Controls the state of the given task. The type of control can be a Start task, Pause task or Break task.

**Device code**
Code to identify the device on which the remote task is executed.

**Box number**
Number to identify the device on which the remote task is executed.

**Task number**
Defines the task number

**No Function**
When the button switch is not used
Indicator LED

This section is used to set the functionality of the indicator LED’s in the Antumbra panel. For the rest of the functions the functionality of the indicator LED is automatically set by Envision Project commissioning software.

**LED**
Enable/Disable. Defines indicator LED status for the selected button.

**Follow panel enable logic**
Defines LED follow behavior based on the panel enable/disable status.

**Follow panic logic**
Defines LED follow behavior based on panic/unpanic mode.

**Follow channel level logic**
Defines LED follow behavior based on current channel level.

**Follow preset logic**
Defines LED follow behavior based on the current preset.

**LED fade time**
Defines fade time for LED.

**Active LED brightness**
Defines the brightness percentage level of the LED when the button is in active state.

**Inactive LED brightness**
This is to define indicator LED brightness level when button is in inactive state.

**Channel level threshold**
Used by channel level logic.

**Min preset**
Together with Maximum preset, min preset is used by follow preset logic.

**Max preset**
Together with Minimum preset, max preset is used by follow preset logic.

**Logical Area**
The logical area where the panel is located.
Logical Channel
The logical channel that panel is assigned to

Join
The static join of the panel

BLA
The base link area number where the panel is located

Off preset
Defines the off preset number for the area. It is used by LED tracking.
Proximity Sensor

The proximity sensor is used to detect a user approaching the Antumbra Panel. As the user is detected, the proximity sensor lights the back of the panel to produce a lightwash effect that welcomes the user to interact with the device. Settings for the proximity sensor are located in the Proximity Sensor page as shown below:

![Figure 16 - Proximity Sensor tab](image)

Properties for the proximity sensor are listed below:

**General**

**Control**

Enable/Disable. Sets the proximity sensor to active mode

**Timeout**

Time delay between the target not detected and target not detected action is executed. The minimum value of timeout in proximity sensor is set to 5 seconds.

**Max proximity time**

Maximum time that proximity sensor can be in target detected status.

**Logical Address**

**Logical Area**

Logical Area where the panel is located.
Logical Channel
The logical channel that panel is assigned to

Join
Static join of the panel

BLA
Disabled or the base link area where the panel is located.

LightWash

Lightwash
Enable/Disable lightwash.

Lightwash brightness level
Light level of the lightwash

Lightwash logical area
Logical Area where the panel is located

Lightwash Logical channel
The logical channel that panel is assigned to

Lightwash Join
Static join of the panel

Lightwash BLA
Disabled or base link area where the panel is located

Function

Target detected actions
Opens the Action Chain Editor for Proximity Sensor Target detected actions.

Target not detected actions
Opens the Action Chain Editor for Proximity Sensor Target not detected actions.
False triggering of the Proximity Sensor can be prevented by ensuring the following points are considered during installation:

- Surrounding cables are at a minimum distance of 25-30cm away from the panel.
- The first 30cm of the cable connected to the panel is fixed. The cable should not move.
- The preferable cable exit after connection to the terminal block is towards the bottom of the panel as it does not have the proximity sensing pad.
- Avoid installing the panel closer than 0.3m from any metal object and other control panels of the same or different type as it may affect the proximity sensing range and cause false triggering.

Note: Do not install panels near windows, sources of heat and air-condition ventilation outlets, also do not expose them to direct sunlight as all these factors may affect temperature sensing performance.
Area Cascading

Area cascading can be configured from the Area Cascading page in the Logical View or with the area cascading wizard.

Tasks and Events

Tasks and Events can be written on the Task Editor. Refer the EnvisionProject Training Guide for more information.

Comm Ports

The Antumbra Button Panel has one standard DyNet port. For more information refer to the Comm Ports section.

Product Details

The Product Details page displays the name, short description and a snapshot of the physical product.
Ordering the Antumbra panel series.

The following text will take an installer through a step by step process of installing an Antumbra panel to ensure the best result. The panel must be mounted on a standard European wall box with screw locations and requires a wall box depth of at least 33mm.

The Full Antumbra panel is split into two parts, the Application module and the Communication module. These two units are ordered separately. Both of these units are required for a complete installation.

The Application module is available in three different button finishes and four different rim finishes. Antumbra panels are also available with an option for button labelling, to detail button functionality. The different finish types and the option of button labelling are detailed in the full panel part name. How the part code is constructed with the different options can be seen below.

This part number describes a European Antumbra button panel with white buttons, white rim and no button labelling. An example of this panel is shown below.

![Antumbra Panel Diagram](image-url)
The following table shows various part codes available for **Antumbra Button Panel**

<table>
<thead>
<tr>
<th>Button Finishes</th>
<th>Profile</th>
<th>Rim Finishes</th>
<th>Custom Label</th>
<th>Part number code</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>E</td>
<td>White</td>
<td>yes</td>
<td>PABPE-WW-L</td>
</tr>
<tr>
<td>White</td>
<td>A</td>
<td>White</td>
<td>yes</td>
<td>PABPA-WW-L</td>
</tr>
<tr>
<td>White</td>
<td>E</td>
<td>White</td>
<td>no</td>
<td>PABPE-WW-X</td>
</tr>
<tr>
<td>White</td>
<td>A</td>
<td>White</td>
<td>no</td>
<td>PABPA-WW-X</td>
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<td>PABPE-WC-L</td>
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<tr>
<td>White</td>
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Application module

Below is the packaging for a single Antumbra button panel application module.

All the components required for mounting the Antumbra button panel.

The Application module base contains all the sensory devices for the panel. All indicator and wall wash LEDs are also mounted within the unit. A rubber membrane is just behind the plastic face plate to give the internal electronics some protection. There are no programmable components to the application module base. The application module base is
supplied with rim finish mounted, this can be gently removed if required to be swapped for another finish by pulling the rim forward. There is a locating key in the top right hand side of the panel to ensure that a replacement rim in mounted the right way around.

Below is the packaging for **Antumbra Touch panel** application module.

All the components required for mounting the Antumbra button panel.
Application module base of Antumbra button in detail.

- **Button Switch**: Behind a rubber membrane the electronic micro switch is mounted.
- **Light level sensor**: To measure the local area current light level so that the indicating and wall wash LED come on at the appropriate level. This sensor cannot be used for daylight harvesting functions.
- **Rim finish**: Optional rim finish for the panel.
- **Temperature sensor**: A network temperature sensor that can be programmed to respond to changes in temperature.
- **Button clip**: The main locking point for the buttons. Buttons must be clicked into this location first.
- **Indicators**: White indicators that can have programmed response. Indicators shine through hidden light wells in button.
- **Button Guides**: The sides of the buttons locate into these grooves to guide the button movement.
- **Mounting Holes**: The short screws protrude through the front of the panel to secure into the mounting bracket.
- **Button Activators**: A blocking wedge that can be set into place to stop the button from mechanical pressing down onto the button switch. This allows the panel to be configured between one to six buttons.
- **Locating pin guide**: Provides a guide on correctly locating the communication module onto the application module.
- **Pin header**: Communication port between the Application module and Communication module. No detail is given to the individual pin functions.
**Light level sensor** - To measure the local area current light level so that the indicating and wall wash LED come on at the appropriate level. This sensor cannot be used for daylight harvesting functions.

**Rim finish** - Optional rim finish for the panel.

**Temperature sensor** - A network temperature sensor that can be programmed to respond to changes in temperature.

**Indicators** - White indicators that can have programmed response. Indicators shine through hidden light wells in button.

**Orientation** – displays arrows which indicate the direction at which the panel should be mounted.

**Mounting Holes** - The short screws protrude through the front of the panel to secure into the mounting bracket.

**Locating pin guide** - Provides a guide on correctly locating the communication module onto the application module.

**Pin header** - Communication port between the Application module and Communication module. No detail is given to the individual pin functions.
Communication Module

The Communication module contains the microprocessor and stores all the panels settings. This unit can be pre-programed off site and connected to the sites Dynet network without the application module if required. The communication module has no way of being physically mounted within a wall box without the Application module.

**Dynet connection** - A removable five-way terminal block were the Dynet network is physically terminated. Please see the following page for more details.

**Network LED** - This is a network indicator to show that the panel is powered and functions correctly. The LED will pulse every few seconds to indicate the panel is functioning correctly.

**Network sign on** - A micro switch that can be used with a small screw driver to make the Communication module broadcast its ID over the Dynet network.

**Function DIP switches** - An advanced feature of the device that can be used on large sites with only a few different panel configurations required such as hotel room projects.

**Connection header** - To connect with the electronics in the application module.

**Location socket** - To correctly align the connection between the Communication module and the application module.

**Labeling space** - When communication modules are pre-programed, the required location for the panel can be shown here for easy identification.
Network termination

When installing any Philips Dynalite system it is important to maintain a daisy chain network path between all devices. Never connect network devices to a live network. Always power down all load controllers and network power supplies before adding or adjusting the Dynet network.

Disconnect the five way screw socket on the back of the Communication module. Terminate the network cable following the diagram below. All devices need to be terminated correctly as shown.

More details on correct network installation can be found in the Philips Dynalite installers courses.
Antumbra Button

Panel Dimension

Layer view:
Below is view of all the components of the Antumbra button panel.

Buttons: Three separate pieces make up the buttons. The buttons contain a hidden window for the indicator.

Rim: The rim is made of a single piece. The rim has built in ventilation for temperature sensor.

Base: Containing all the sensory input devices, indicating LED & light wash effect. All components of the Antumbra panel mount together into the base unit.

Mounting plate: A metal mounting plate allows for installation into standard wall box.

Communication module: Supplied separately the Communication module stores all the network panels settings and capacity to communicate over the Dynet network.
Installing the Antumbra button panel

Antumbra Panel series are supplied from DyNet network which is classified as SELV/Class II (for NA) Overvoltage category III in accordance with IEC60664-1 (0.8 kV surge).

Recommended DyNet network topology is Daisy Chain.

Total network power supply current contribution shall not exceed Dynet cable current rating. Use approved DyNet power supplies only with incorporated overload protection.

Ensure installation of Antumbra Panel Series is compliance with HD 60364 - 4I where applicable.

**Caution:** Disconnect Dynet before attachment of Application Module.

For a full installation, both the Application & Communication modules are required.

The Communication module and Application module will lock in together when the locating pin on the Application module lines up with the locating socket in Communication modules.
If required the Communication module and Application module can be separated again by using a small screw driver to gently unlock two clips either side of the Communication module.

The mounting plate will fit any standard size European wall box or a wall cut out of 51mm x 51mm. If using wall mounting then the smaller base mounting screw locations should also have small indent behind them, made into the wall so there is no interference from the screws while mounting the panel. The Mounting box must have a depth of 33mm to contain all the panel components and network cabling. Remember that there will be a need for two network cables in the wall box.

1 The mounting plate needs to be installed with the locating tabs into the wall. 2 The network cables and connector plug pulls though the mounting bracket. 3 The plate’s orientation can be either way. Using the long mounting screws provided fix the mounting bracket to the wall. Installers must use the screws provided as different screws could damage the panel once fully installed.

Ensure that the mounting plate is levelled and make adjustments if required.
Once the mounting bracket is mounted plug the five-way network socket into the mounted Communications module.

The whole panel assembly can be pushed into the mounting bracket. Locate and fix the application base to the mounting bracket using the two smaller screws through the mounting holes. Recheck the level of the panel and adjust if required.

Individual buttons can be disabled if a particular panel location does not require all six buttons to be used. By using the blue switches and buttons, mechanical action can be switched on or off.
Once the buttons disable and enables have been set, the final buttons can be clicked in. The order of buttons being mounted is not important. When mounting the buttons, first click in the centre clips of the button to the application base, then make sure the button guides line up within the application base too. The end result should be a smooth button action.
Test each of the enabled buttons for a positive click when pressed. If any enabled button does not have a positive click when pressed, check for obstructions or the disable switch being set incorrectly.
Antumbra Touch

Panel Dimensions:

Layer View:

Application module
All components are supplied pre-assembled together.

Communication module
The Communication module is supplied separately from the Application module. The Communications module stores all the settings of the panel and manages all communication requirements to the Dynet network.

Glass face
A single piece of glass is used for the panels face. The glass is available in two different colors – White, Black. The buttons contain a hidden window for the indicator and light level sensor, giving a smooth and flawless finish.

Rim
The rim is made of a single piece which is available in White, Black, Chrome & Aluminium. The rim has built-in ventilation openings to allow for a fast acting response from the temperature sensor. The rim is attached to the glass face to make one piece.

Base
The base contains all the sensory input devices, audio buzzer, indicating LED's & produces the light wash effect. The devices are enclosed in a rubber membrane that protect the internal electronics from the environment. All components of the Antumbra panel mount together onto the base unit.

Mounting plate
A metal mounting plate allows for installing in standard wall boxes and gives the whole panel strength to prevent the panel from flexing during installation. The mounting plate also provides the correct spacing for the unique light wash effect.
Installing Antumbra Touch panels

For a full installation, both the Application & Communication modules are required.

The Communication module and Application module will lock in together when the locating pin on the Application module lines up with the locating socket in Communication module’s

If required the Communication module and Application module can be separated again by using a small screw driver to gently unlock two clips either side of the Communication module

The mounting plate will fit any standard size European wall box or a wall cut out of 51mm x 51mm. If using wall mounting then the smaller base mounting screw locations should also have small indent behind them, made into the wall so there is no interference from the screws while mounting the panel. The Mounting box must have a depth of 33mm to contain
all the panel components and network cabling. Remember that there will be a need for two network cables in the wall box.

1. The mounting plate needs to be installed with the locating tabs into the wall. 2. The network cables and connector plug pull through the mounting bracket. 3. The plate’s orientation can be either way. Using the long mounting screws provided fix the mounting bracket to the wall. Installers must use the screws provided as different screws could damage the panel once fully installed.

Ensure that the mounting plate is level and make adjustments if required.

Once the mounting bracket is mounted plug the five-way network socket into the mounted Communications module.
The whole panel assembly can be pushed into the mounting bracket. Locate and fix the application base to the mounting bracket using the two smaller screws through the mounting holes. Recheck the level of the panel and adjust if required.

Check for the orientation arrows when fixing the application base on the mounting bracket.

The air vents for the temperature sensor on the glass face should be placed on the top of the temperature sensor on the application base as shown the picture above.

Place the glass face on the application base and gently press it to fix the panel to the base.

To remove the glass face from the application base, loosen the glass face from the bottom and then the sides and later lift it from the application base. The pictures below show the correct way of removing the glass face from the application base.
Antumbra Error Search Tree

PCS1 (for entire range)

Product functions impaired/ not working properly

Is Dynet wiring correct

Yes

Is Dynet network supply present and within the specification?

No

Correct the wiring

No

Call Philips with clear problem description and provide Product Name & Serial # for further support.

Yes

Check network supply

PCS2 (for entire range)

LED indicators not functioning correctly

Possible configuration issue

Is there issue with panel configuration

Yes

Correct panel configuration issue

No

Call Philips with clear problem description and provide Product Name & Serial # for further support.

PCS3 (for entire range)

Inaccurate temperature detection

Possible installation issue

Is panel installed near windows, sources of heat or air-condition ventilation outlets?

Yes

Ensure panel is installed at appropriate locations as per User Guide.

No

Is panel exposed to direct sunlight?

Yes

Ensure panel is not exposed to direct sunlight

No

Call Philips with clear problem description and provide Product Name & Serial # for further support.

Note: PCS = Problem Cause Solution
PCS4 (for entire range)

Undesirable lightwash effect

Possible installation issue

Is panel installed on uneven area? [Yes/No]

Is there issue with panel configuration? [Yes/No]

Call Philips with clear problem description and provide Product Name & Serial # for further support.

PCS5 (for entire range)

False triggering of lightwash effect

Possible due to noise near panel

Are surrounding cables within 300mm radius of panel? [Yes/No]

Is the first 300mm of cable connected to the panel being correctly installed to prevent movements? [Yes/No]

Is cable exit after connection to the terminal block not at bottom of panel? [Yes/No]

Are there metal objects within 300mm radius of panel centre? [Yes/No]

Call Philips with clear problem description and provide Product Name & Serial # for further support.

Note: PCS = Problem Cause Solution
PCS6 (for Touch panel only)

Buzzer sounds undesirable

Possible due to incorrect mounting

Are mounting screws overtightened?

Yes → Tighten screws with appropriate torque as per Installation Manual

No → Call Philips with clear problem description and provide Product Name & Serial # for further support.

PCS7 (for entire range except Button panel)

Malfunction of touch key/ wrong key recognition

Is panel configuration correct?

No → Correct the configuration

Yes → Call Philips with clear problem description and provide Product Name & Serial # for further support.

PCS8 (for Touch panel only)

Glass fascia breaks

Is excessive force applied during installation?

Yes → Follow the Installation Manual

No → Are mounting screws overtightened?

Yes → Tighten screws with appropriate torque as per Installation Manual

No → Call Philips with clear problem description and provide Product Name & Serial # for further support.

Note: PCS = Problem Cause Solution
PCS9 (for Touch panel only)

Glass wont install properly on warped clips

Possible due to mounting force during installation

Are mounting screw overtightened?

Yes

Mount screw with appropriate torque as per Installation Manual

No

Call Philips with clear problem description and provide Product Name & Serial # for further support.

Note: PCS = Problem Cause Solution