



**PHILIPS**

Indoor Controls



# Absolute Certainty

Take confident control of your indoor lighting projects with Philips Connected Lighting Solutions

# All the right solutions for all the right reasons

In your business, efficiency and professional reputation are paramount. So when it comes to selecting the right connected lighting solution for a lighting project, you need a system that is easy to specify, quick to install and leaves your customer delighted at project conclusion and beyond.

**Philips Connected Lighting Solutions can help you achieve these goals.**

Indoor Controls

.....  
Connected  
lighting solutions  
.....





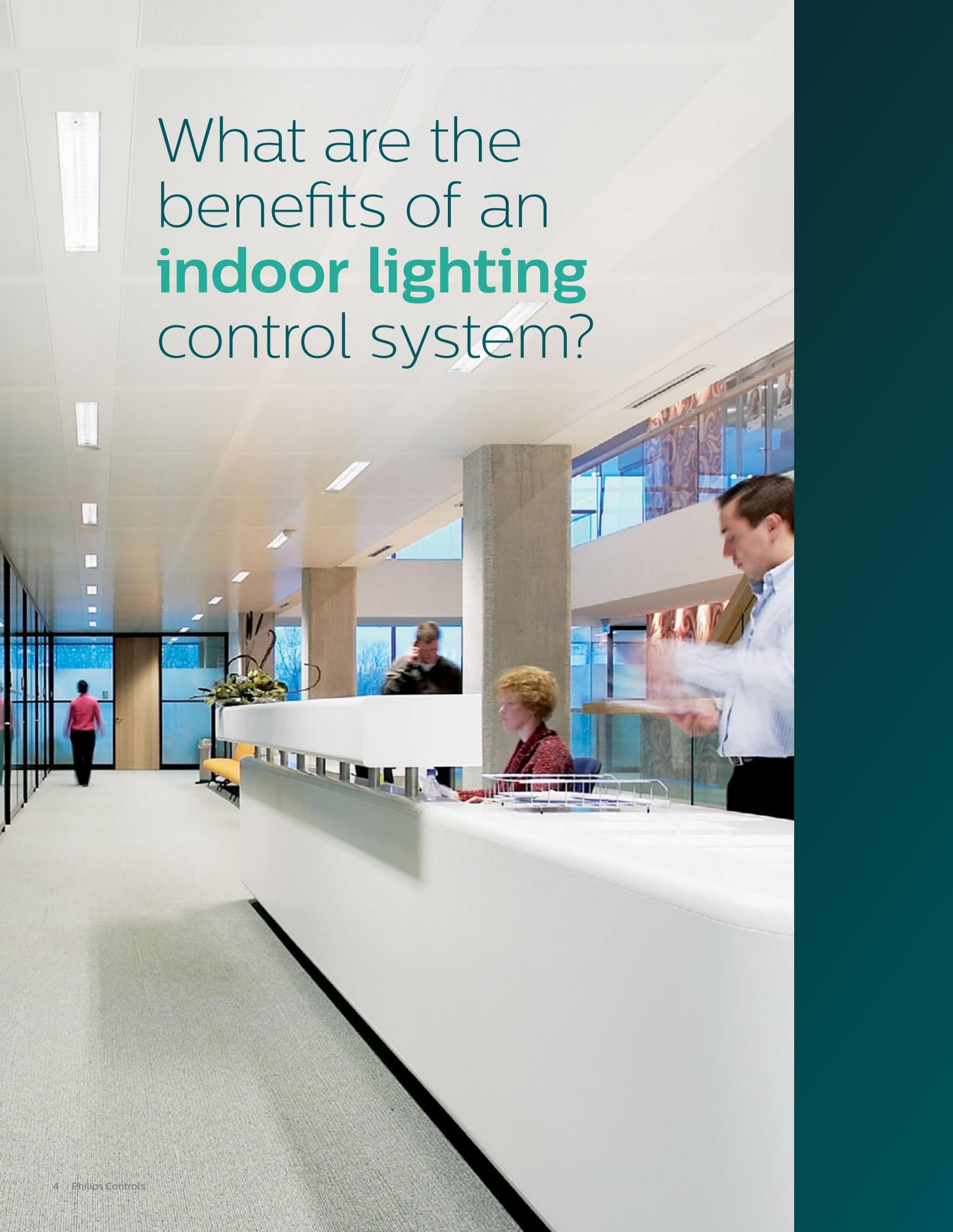
# Trusted products, knowledge and service

With a complete selection of drivers, luminaires, lamps, controls and software from one trusted manufacturer, you can be assured that your Philips Connected Lighting Solution operates seamlessly for efficient, reliable performance and can help reduce energy costs for your customer.

At the same time, we make it easy for you to build a custom, scalable connected lighting solution that complies with the most recent building code requirements so that you don't have to spend time researching complex lighting requirements or worrying about problems down the road.

And with full-scale service offerings from system design assistance, project management and commissioning through financing and after-sale system maintenance, we can help you to confidently create a truly unique and robust lighting solution.

# What are the benefits of an **indoor lighting** control system?



## Provide a sense of security

- ✓ Well-lit areas provide employees and customers a sense of security and comfort. Illuminate egress pathways during emergency conditions, turn on site lighting to provide passage to parked vehicles, illuminate steps and obstructions, and integrate with security systems to coordinate facility lighting response during security events.

## Enhance occupant comfort and productivity

- ✓ Lighting controls provide solutions that enable occupants to change the light levels to their optimum level of comfort and preference.
- ✓ Lighting systems can adapt to occupant needs for team space, open floor plans and offices.
- ✓ Flexible lighting can motivate employees by accommodating varying work styles and business demands.

## Create a positive image

- ✓ Lighting can set the right mood and create a unique experience which helps distinguish a facility. Whether highlighting architectural features, creating an inviting area, ensuring well-illuminated environments for employees, or offering flexible lighting for occupant comfort, lighting offers many opportunities to establish a unique environment.

## Be part of a greener future

- ✓ Efficient lighting (supported by Lighting Controls) can help contribute multiple points towards Leadership in Energy and Environmental Design (LEED) Certifications\*.
- ✓ An increased focus on green buildings has accelerated the drive to achieve best practice environmental and sustainable standards in new and remodel construction projects.

\* DiLouie, Craig, "Lighting and LEED", Lighting Control Association, February 2009, [www.aboutlightingcontrols.org/education/papers/greendesign.shtml](http://www.aboutlightingcontrols.org/education/papers/greendesign.shtml)

# Which solution do I need for my space?

## Standalone Control Solutions

- Contractor installed
- Basic compliant lighting control
- ON/OFF and optional dimming
- Single and dual zone operation
- Intuitive programming and operation

## Network Control Solutions

- Everything Standalone +
- Provides information and analytics, allowing for system monitoring
- Unlimited scale (geographic and technological)
- Multi-Technological (wired, wireless, and alternative power like Power Over Ethernet)
- High customization to users functional requirements
- High level integration to building systems
- Integration to other devices and building parts for ON/OFF and dimming
- Ability to meet most energy code requirements including demand response initiatives

When deciding upon the most appropriate **control solution** it is essential to be aware of the **requirements** of the project and the **implications** of the application in the **installation**. **Our portfolio** of Philips control systems provides a **wide range of options** in regards to user **supervision of the lighting** — with three different grades of supervision — both for conventional systems and for **LED lighting**.

# How to choose the right indoor lighting control system

When selecting the most appropriate indoor lighting control solution, it is necessary to consider not only the applicable energy codes, but also the intent behind the lighting design, the intended use of the space, the utilization of any existing infrastructure, and the size of any installation.

**However, strongly influencing factors frequently include economic investment and the type of control solution.**

| Control Solutions      | Standalone  | Network  |
|------------------------|---|--|
| Customer Requirements  | <ul style="list-style-type: none"><li>• Comply with existing legislation</li><li>• Simple operation and installation</li><li>• Plug and play</li><li>• Connect and configure</li><li>• Cost effective</li></ul> | <ul style="list-style-type: none"><li>• Optimal investment/savings ratio</li><li>• Greatest possible flexibility and detail in monitoring</li><li>• Adapts to changes in occupant requirements</li><li>• Connect and program</li><li>• Integration with other building monitoring systems</li><li>• Ability to monitor and manage lighting systems</li></ul> |
| Typical Energy Savings | Good  | High   |



For those cases in which the sole requirement is to comply with existing regulation, **Standalone** control systems are recommended, incorporating occupancy sensing, daylight holdback and full range daylighting, timer switches and astronomic timeclock switches. These systems make it possible to achieve considerable savings with a minimal investment.

**Network** control systems provide maximum flexibility while offering flexible options and simple integration capabilities. This means that each light point can be controlled individually (reducing the costs of

enlargement or future modifications of the lighting), but that control and monitoring of the complete system is also available. In addition, network solutions provide greater comfort given that they give the user greater control and optimize lighting, making it suitable for each task to create a secure and well-lighted environment.

Multi site solutions are available for retail and hospitality applications using our comprehensive offering of network controlled lighting solutions.



# Standalone Solutions

# Autonomous. Affordable. Flexible.

Are you looking to save energy with a simple-to-install lighting control solution? If so, our standalone control solutions may meet your needs.

- Simple, room based control solutions
- Individual luminaire dimming, occupancy sensing and management
- Contractor installed systems for energy savings
- Single and dual zone control
- Cost effective solution for energy retrofits

## Standalone Solutions



**OccuSwitch**  
Controls Classic



**Sunrise**  
Dimmers



**ActiLume**  
Controls



# OccuSwitch Controls Classic

The OccuSwitch Classic family offers a full line of indoor occupancy control solutions. These simple to use controls help maximize energy savings by turning lights on or off depending on whether an area is occupied or unoccupied. Using state of the art Passive Infrared (PIR) or Multi-tech (PIR and ultrasonic) sensing technology, these ceiling, wall, and wallbox mounted sensors make it easy for you to save energy.



## Features

- Reduces energy consumption by turning the lights off when a space is unoccupied
- Optional daylight holdback further enhances energy savings by leaving lights off if there is enough daylight
- Multiple models with different occupancy sensing technologies and mounting options make OccuSwitch Classic products a flexible solution for a variety of areas
- Self-adaptive technology means that time delay and sensitivity settings are continually adjusted to occupancy patterns
- Low profile designs blend easily into surroundings
- Compliant with applicable California Title 20 and Title 24-2013 requirements
- Compliant with ASHRAE 90.1-2010 and IECC 2009 occupancy sensor requirement

## Recommended Applications

- Restrooms
- Storage Areas
- Corridors
- Warehouses

## Wall Switch Sensors

| 12NC number  | Catalog number | Description   | Voltage |
|--------------|----------------|---|---------|
| 912400474178 | LRS2210/00     | Occupancy Sensor, Wall Switch, PIR, White                         | 120     |
| 912400474179 | LRS2210/01     | Occupancy Sensor, Wall Switch, PIR, Ivory                         | 120     |
| 912400528923 | LRS22110/00    | Vacancy Sensor, Wall Switch, PIR, Title 24, Manual On             | 120     |
| 912400528924 | LRS22110R/00   | 3-Way Remote Switch for LRS22110 Vacancy Sensor                   | 120     |
| 912400474180 | LRS2215/00     | Occupancy Sensor, Wall Switch, PIR, Dual Switch, White            | 120/277 |
| 912400474181 | LRS2215/01     | Occupancy Sensor, Wall Switch, PIR, Dual Switch, Ivory            | 120/277 |
| 912400474182 | LRS2220/00     | Occupancy Sensor, Wall Switch, PIR/Ultrasonic, White              | 120/277 |
| 912400474183 | LRS2220/01     | Occupancy Sensor, Wall Switch, PIR/Ultrasonic, White              | 120/277 |
| 912400474184 | LRS2225/00     | Occupancy Sensor, Wall Switch, PIR/Ultrasonic, Dual Switch White  | 120/277 |
| 912400474185 | LRS2225/01     | Occupancy Sensor, Wall Switch, PIR/Ultrasonic, Dual Switch, Ivory | 120/277 |
| 912400474186 | LRS2230/00     | Occupancy Sensor, Wall Switch, PIR, Nightlight, White             | 120/277 |
| 912400528969 | LRS2230/01     | Occupancy Sensor, Wall Switch, PIR, Nightlight, Ivory             | 120/277 |



## Ceiling Mount Sensors, Line Voltage

| 12NC number  | Catalog number | Description  | Voltage |
|--------------|----------------|--|---------|
| 912400518186 | LRL2380/00     | On/Off Photocell Sensor, Single Zone                       | 120/277 |
| 912400474158 | LRL2385/00     | On/Off Photocell Sensor, Dual Zone                         | 120/277 |
| 912400528349 | LRL2390/00     | On/Off Dimming Photocell Sensor                            | 120/277 |
| 912400474164 | LRM2240/00     | Occupancy Sensor, Line Voltage, PIR, 530 Sq. Ft            | 120     |
| 912400474165 | LRM2245/00     | Occupancy Sensor, Line Voltage, PIR, 530 Sq. Ft            | 277     |
| 912400518194 | LRM2370/00     | Occupancy Sensor, Line Voltage, PIR                        | 120/277 |
| 912400518195 | LRM2375/00     | Occupancy Sensor, Line Voltage, PIR, On/Off Photocell      | 120/277 |
| 912400518196 | LRM2376/00     | Occupancy Sensor, Line Voltage, PIR, Daylighting Photocell | 120/277 |
| 912400518197 | LRM2377/00     | Occupancy Sensor, Line Voltage, PIR, Dual Zone             | 120/277 |



## Ceiling/Wall Mounted Sensors, Low Voltage

| 12NC number  | Catalog number | Description  |
|--------------|----------------|--|
| 912400474166 | LRM2250/00     | Occupancy Sensor, Ceiling Mount, PIR, 1500 Sq. Ft.                 |
| 912400474167 | LRM2255/00     | Occupancy Sensor, Ceiling Mount, PIR/Ultrasonic, 2000 Sq. Ft.      |
| 912400474168 | LRM2260/00     | Occupancy Sensor, Ceiling Mount, PIR/Ultrasonic, 500 Sq. Ft., 180° |
| 912400474169 | LRM2265/00     | Occupancy Sensor, Wall Mount, PIR/Ultrasonic, 1200 Sq. Ft.         |
| 912400474170 | LRM2270/00     | Occupancy Sensor, Wall Mount, PIR, 2500 Sq. Ft.                    |
| 912400474171 | LRM2275/00     | Occupancy Sensor, Wall Mount High-Bay, PIR, 55' x 7'               |
| 912400474172 | LRM2280/00     | Occupancy Sensor, Wall Mount High-Bay, PIR, 100' x 14'             |



## Power Relay Packs

| 12NC number  | Catalog number | Description                               | Voltage |
|--------------|----------------|---|---------|
| 912400473978 | LCA2285/00     | OccuSwitch PowerPack                      | 120/277 |
| 912400473979 | LCA2287/00     | OccuSwitch PowerPack w/ HVAC Relay        | 120/277 |
| 912400528929 | LCA2290/00     | OccuSwitch PowerPack                      | 347     |
| 912400473980 | LCA2292/00     | OccuSwitch PowerPack, Title 24, Manual On | 120/277 |



## Remote Location Switch

| 12NC number  | Catalog number | Description   |
|--------------|----------------|---|
| 912400528926 | LRS24120/00    | Double-Throw Momentary Contact Switch, 24VDC, White |
| 912400528927 | LRS24120/01    | Double-Throw Momentary Contact Switch, 24VDC, Ivory |



## Timer Switches

| 12NC number  | Catalog number | Description                                | Voltage |
|--------------|----------------|--|---------|
| 912400528921 | LTA24450C      | Timer Switch 10-20-30-60 minute            | 120     |
| 912400528922 | LTA24550C      | Astronomical Timeclock Switch              | 120     |
| 912400528925 | LRS22113/00    | 3-Way Remote Switch for OSC Timer Switches | 120     |





# Sunrise Dimmers

Philips designed the Sunrise Preset Electronic Wall Dimmers for most commercial and residential applications. Sunrise Preset Slide Dimmers and power extenders provide reliable dimming control for LED, compact fluorescent, and other commonly used lamps and fixture types.



## Features

- **Slide dimming:**  
Each model uses an intuitive, captive slider knob
- **Versatile gang configuration:**  
Each model fits in a single-gang box and can be used in multi-gang configurations
- UL/CSA listed

## Recommended Applications

- Executive Offices
- Boardrooms & Conference Rooms
- Lobbies
- Dining Rooms & Restaurants
- Retail Stores
- Residential

## Wall Dimmers

| 12NC number  | Catalog number | Description  | Voltage |
|--------------|----------------|--|---------|
| 912400528304 | SR1000FPC120   | Dimmer, Incandescent, 1000W - White, Ivory, Light Almond                                   | 120     |
| 912400528198 | SR1000MK10120  | Dimmer, Mark 10, 1000VA - White, Ivory, Light Almond                                       | 120     |
| 912400527767 | SR1000VA120    | Dimmer, Inductive, 1000VA - White, Ivory, Light Almond                                     | 120     |
| 912400527736 | SR1200MK10277  | Dimmer, Mark 10, 1200VA - White, Ivory, Light Almond                                       | 277     |
| 912400526434 | SR1200ZTUNV    | Dimmer, 0-10VDC, 1200VA - White, Ivory, Light Almond                                       | 120/277 |
| 912400527677 | SR150LED120    | Dimmer, LED/CFL/Incandescent, 150W LED/CFL, 600W Incandescent - White, Ivory, Light Almond | 120     |
| 912400527661 | SR400RPC120    | Dimmer, Trailing Edge, 400VA - White, Ivory, Light Almond                                  | 120     |
| 912400527730 | SR600MK10120   | Dimmer, Mark 10, 600VA - White, Ivory, Light Almond  | 120     |
| 912400528285 | SR600MK10277   | Dimmer, Mark 10, 600VA - White, Ivory, Light Almond  | 277     |
| 912400474185 | LRS2225/01     | Occupancy Sensor, Wall Switch, PIR/Ultrasonic, Dual Switch, Ivory                          | 120/277 |
| 912400474186 | LRS2230/00     | Occupancy Sensor, Wall Switch, PIR, Nightlight, White                                      | 120/277 |
| 912400528969 | LRS2230/01     | Occupancy Sensor, Wall Switch, PIR, Nightlight, Ivory                                      | 120/277 |



## Fan Control

| 12NC number  | Catalog number | Description                                    | Voltage |
|--------------|----------------|--|---------|
| 912400528261 | SR1AFC120      | Fan Control, 1.5A - White, Ivory, Light Almond | 120     |



## Remote Location Switches

| 12NC number  | Catalog number | Description                                    | Voltage |
|--------------|----------------|--|---------|
| 912400528881 | SR3I           | 3-Way Remote for Sunrise Dimmers, Ivory        | 120/277 |
| 912400528928 | SR3LA          | 3-Way Remote for Sunrise Dimmers, Light Almond | 120/277 |
| 912400527787 | SR3W           | 3-Way Remote for Sunrise Dimmers, White        | 120/277 |



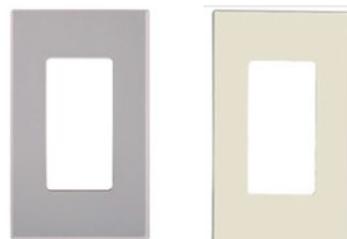
## Dimmer Power Extenders

| 12NC number  | Catalog number | Description                              | Voltage |
|--------------|----------------|--|---------|
| 912400473981 | LCU2420/00     | Power Extender, 1920VA, Incandescent     | 120     |
| 912400473982 | LCU2425/00     | Power Extender, 1920VA, Mark 10          | 120     |
| 912400473983 | LCU2430/00     | Power Extender, 3000VA, Mark 10          | 277     |
| 912400473984 | LCU2435/00     | Power Extender, Universal Voltage, 0-10V | 120/277 |



## Faceplates

| 12NC number  | Catalog number | Description                    |
|--------------|----------------|--------------------------------|
| 912400528167 | 80301-SI       | 1-Gang Faceplate, Ivory        |
| 912400528168 | 80301-ST       | 1-Gang Faceplate, Light Almond |
| 912400528166 | 80301-SW       | 1-Gang Faceplate, White        |
| 912400528172 | 80309-SI       | 2-Gang Faceplate, Ivory        |
| 912400528173 | 80309-ST       | 2-Gang Faceplate, Light Almond |
| 912400528171 | 80309-SW       | 2-Gang Faceplate, White        |
| 912400528177 | 80311-SI       | 3-Gang Faceplate, Ivory        |
| 912400528178 | 80311-ST       | 3-Gang Faceplate, Light Almond |
| 912400528176 | 80311-SW       | 3-Gang Faceplate, White        |
| 912400528181 | 80312-SI       | 4-Gang Faceplate, Ivory        |
| 912400528182 | 80312-ST       | 4-Gang Faceplate, Light Almond |
| 912400528180 | 80312-SW       | 4-Gang Faceplate, White        |





# ActiLume Controls

ActiLume Lighting Controls are the simple way for office and light industrial facilities to realize the energy-saving benefits of occupancy sensors while at the same time minimizing maintenance and setup costs. ActiLume Classic sensors easily attach to existing fixtures to turn individual fixtures on or off depending on whether a space is occupied. Actilume controls are typically factory-installed solutions, but many can also be easily installed in the field.



## Features

- Reduces energy costs by turning lights off when the space is not in use, or leaving them off if there is enough daylight
- Passive Infrared (PIR) technology maximizes energy savings by helping to minimize false triggers from minor background environmental conditions or vibrations
- Easily attaches to existing luminaires or electrical junction box
- Push button adjustments means no professional training required for commissioning and light level adjustment
- Optional mounting bracket allows sensor to be mounted up to 4.3 inches lower to avoid obstructions

## Recommended Applications

### Office Solutions

- Single Office
- Open Plan Office
- Conference Rooms

### Industrial Solutions

- Factories
- Warehouses
- Cold-Storage
- High-bay

## Office Solutions

### Internal Fixture Mounted Sensors & Controllers

| 12NC number  | Catalog number | Description   |
|--------------|----------------|---|
| 913700339603 | LLC1655/00*    | ActiLume 1-10V SwitchBox  |
| 913700339503 | LRI1655/00     | ActiLume 1-10V Sensor 100 cm (PIR occupancy and Daylight)       |
| 913700354903 | LRI1655/05     | ActiLume 1-10V Sensor 100 cm White (PIR occupancy and Daylight) |
| 913700182182 | LRL1220TL5     | LuxSense ambient light sensor 0-10V W/ T5 LAMP CLIP             |
| 913700182282 | LRL1220TLD     | LuxSense ambient light sensor 0-10V W/ T8 LAMP CLIP             |
| 913700346403 | LRL1222/10     | MicroLuxSense ambient light sensor 0-10V, White                 |
| 913700354803 | LRL1222/15     | MicroLuxSense ambient light sensor 0-10V, Light Gray            |

\* Cannot be used in conjunction with standalone 0-10VDC dimmers



### External Photo and/or Occupancy Sensors

| 12NC number  | Catalog number | Description   |
|--------------|----------------|---|
| 912400513730 | LRI1655CMP*    | 0-10V Photocell w/Occupancy Sensor & Ceiling Mount Plate      |
| 912400474156 | LRL1222CMP*    | MicroLuxSense ambient light sensor 0-10V, Ceiling Mount Plate |

\* Cannot be used in conjunction with standalone 0-10VDC dimmers



### Internal Fixture Mounted Accessories

| 12NC number  | Catalog number | Description                               |
|--------------|----------------|---|
| 913700338303 | LCA8001/00     | RING FOR COVER SET OF 100PCE              |
| 913700340803 | LCA8002/00     | ActiLume Clip TL5 set 50pce*              |
| 913700340903 | LCA8003/00     | ActiLume Clip TL-D set 50pce*             |
| 913700348803 | LCA8005/00     | ActiLume Mounting Clip 50pce - Light Gray |
| 913700355103 | LCA8005/05     | ActiLume Mounting Clip 50W - White        |

\* For use with LRL1222/XX and LRI1655/XX

## Industrial Solutions

### External Fixture Mounted Sensors

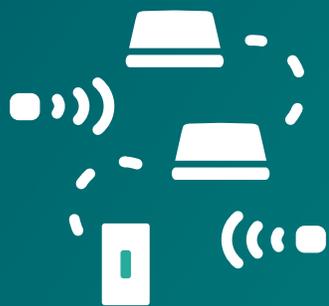
| 12NC number  | Catalog number | Description  | Voltage     |
|--------------|----------------|--|-------------|
| 912400518189 | LRM2320/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, Low-Bay   | 120/277     |
| 912400518190 | LRM2325/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, Low-Bay   | 347         |
| 912400474173 | LRM2330/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, High-Bay  | 120/277     |
| 913701231401 | LRM2335/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, High-Bay  | 347         |
| 912400474174 | LRM2340/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, High-Bay, On/Off Photocell, Low Temperature (-40°C/F)         | 120/277     |
| 912400518191 | LRM2342/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, High-Bay, Dimming Photocell, Low Temperature (-40°C/F)        | 120/277     |
| 913701231601 | LRM2345/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR, High-Bay, On/Off Photocell, Low Temperature (-40°C/F)         | 347         |
| 912400474175 | LRM2348/00     | Occupancy Sensor, External Fixture Mounted, 360°, PIR  | 480         |
| 912400474176 | LRM2350/00     | Occupancy Sensor, External Fixture Mounted, PIR, High-Bay, Aisle Focus   | 120/277     |
| 912400518192 | LRM2360/00     | Occupancy Sensor, External Fixture Mounted, PIR, High-Bay, Aisle Focus, On/Off Photocell                             | 120/277     |
| 912400518193 | LRM2362/00     | Occupancy Sensor, External Fixture Mounted, PIR, High-Bay, Aisle Focus, Dimming Photocell, Low Temperature (-40°C/F) | 120/277     |
| 913701232101 | LRM2365/00     | Occupancy Sensor, External Fixture Mounted, PIR, High-Bay, Aisle Focus, On/Off Photocell, Low Temperature (-40°C/F)  | 347         |
| 913701231901 | LRM2355/00     | Occupancy Sensor, External Fixture Mounted, PIR, High-Bay, Aisle Focus   | 347         |
| 913701232201 | LRM2368/00     | Occupancy Sensor, External Fixture Mounted, PIR, High-Bay, Aisle Focus   | 480         |
| 912400474177 | LRM2369/00     | Sensor Mounting Bracket  | N/A         |
| 912400474187 | LRS2235/00     | Occupancy Sensor, Fixture Mount, PIR, High-Bay   | 120/277/347 |
| 912400528970 | LRS2237/00     | Occupancy Sensor, Fixture Mount, PIR, High-Bay   | 480         |



### Internal Fixture Mounted Sensors

| 12NC number  | Catalog number | Description   | Voltage |
|--------------|----------------|---|---------|
| 913701261401 | LRM2311/00     | Occupancy Sensor, Internal Fixture Mounted, 360°, PIR | 120/277 |
| 913701261501 | LRM2316/00     | Occupancy Sensor, Internal Fixture Mounted, 360°, PIR | 347     |





# Network: Simple Connected Solutions

# Intermediate. Informative. Flexible.

Do you require widespread or multi-site lighting management with detailed asset management?  
Are you seeking a lighting solution that can grow along with your needs?  
If so, our network remote managed connected lighting systems may suit your needs.

- Environment control of limitless size
- Integration to other systems
- Operation up to 32 circuits
- Centralized operation and management are desired

## Simple Connected Solutions



**OccuSwitch**  
Wireless Controls



**LyteSwitch Two**  
Relay Solutions

# OccuSwitch

## Wireless Controls

The Philips OccuSwitch Wireless Control System contains an advanced, energy-saving occupancy sensor designed with an integrated photocell that automatically turns lights off when the room is unoccupied or dims them when enough daylight is present. This unique indoor link-and-go system is perfect for retrofits and new installations in commercial applications.

### Features

- Wireless sensor controls make it easy-to-install in retrofit and new construction applications
- Sleek low profile design (only 3.3 inches in diameter and .98 inches in depth) provides a stylish solution that easily blends into existing and new office designs
- Advanced occupancy sensing technology helps to enhance performance while optimizing energy savings
- Compliant with applicable California Title 24-2013 energy efficiency device code requirements
- Up to 16 devices can be linked together to control one space
- Meets energy codes device requirements
- Compliant with ANSI/ASHRAE/IESNA Standard 90.1-2010 & 189.1-2009, 2009 Section 505 & 2012 Section C405 IECC (International Energy Conservation Code)

### Recommended Applications

- Offices
- Conference Rooms
- Restrooms
- Storage and Break Areas
- Copy Rooms
- Lunch Rooms
- Classrooms
- Lobby Areas



**OccuSwitch** Wireless Controls  
 Ordering Information

Internal Fixture Mounted Sensors

| 12NC number  | Catalog number | Description                            | Voltage |
|--------------|----------------|--|---------|
| 913700343903 | LRA1721/00     | OccuSwitch Wireless Wall Switch, White | 120/277 |
| 913700344003 | LRA1721/01     | OccuSwitch Wireless Wall Switch, Ivory | 120/277 |



Internal Fixture Mounted Sensors

| 12NC number  | Catalog number | Description  |
|--------------|----------------|--|
| 913700344103 | LRM1743/00     | OccuSwitch Wireless Ceiling Sensor, PIR                        |
| 913700336803 | LRM1760/00     | OccuSwitch Wireless Ceiling Sensor, PIR, Daylighting Photocell |
| 913700352103 | LRM1766/10     | OccuSwitch Wireless Corridor Sensor, PIR                       |
| 913700351703 | LRM1771/10     | OccuSwitch Wireless Corner Sensor, PIR                         |
| 913700351903 | LRM1776/10     | OccuSwitch Wireless Wall Sensor, PIR                           |





# LyteSwitch Two Relay Solutions

The Philips LyteSwitch Two Relay Solution is a family of high performance programmable relay lighting controllers designed for easy integration with any lighting system. A scalable design allows up to 48 relays to be chained together via CAT5/6/7 cable.



## Features

- 365-day integrated programmable time clock
- Simple onscreen programming
- Easily chain a master relay cabinet with inexpensive expansion relay enclosures into 'mini-spurs' of relays with CAT5/6/7 to increase the count of relays (up to 48 per control source)
- Available in 4, 8, 16, and 32 relay panel sizes
- Analog Option card allows conventional switches to be integrated
- Small footprint allows flush or surface mounting of all cabinet sizes (Trim Ring optionally available)
- Button stations available to tie directly into the minispur for simple control
- DMX512 master relay cabinet available for integration with any DMX512 controller or with DyNet devices via DDNG485-NA gateway (see page 44)
- Design allows a contractor or end user to program the system, avoid expensive third party programming and system commissioning
- Allows tie-in of Standalone OccuSwitch Low Voltage Occupancy Sensors

## Recommended Applications

- General Purpose Areas
- Open Office Areas
- Classrooms
- Retail

## Master Enclosure\*

| 12NC number  | Catalog number        | Description                              | Voltage |
|--------------|-----------------------|--|---------|
| 912400518681 | DC-DRE-I-4M-001       | LS2 4 Circuit Master Enclosure           | 120/277 |
| 913701263401 | DC-DRE-I-4M-001-347   | LS2 4 Circuit Master Enclosure           | 347     |
| 912400519017 | DC-DRE-I-4MD-001      | LS2 4 Circuit Master Enclosure with DMX  | 120/277 |
| 913701263501 | DC-DRE-I-4MD-001-347  | LS2 4 Circuit Master Enclosure with DMX  | 347     |
| 912400518683 | DC-DRE-I-8M-001       | LS2 8 Circuit Master Enclosure           | 120/277 |
| 913701263701 | DC-DRE-I-8M-001-347   | LS2 8 Circuit Master Enclosure           | 347     |
| 912400519018 | DC-DRE-I-8MD-001      | LS2 8 Circuit Master Enclosure with DMX  | 120/277 |
| 913701263801 | DC-DRE-I-8MD-001-347  | LS2 8 Circuit Master Enclosure with DMX  | 347     |
| 912400519015 | DC-DRE-I-16M-001      | LS2 16 Circuit Master Enclosure          | 120/277 |
| 913701262701 | DC-DRE-I-16M-001-347  | LS2 16 Circuit Master Enclosure          | 347     |
| 912400519188 | DC-DRE-I-16MD-001     | LS2 16 Circuit Master Enclosure with DMX | 120/277 |
| 913701262801 | DC-DRE-I-16MD-001-347 | LS2 16 Circuit Master Enclosure with DMX | 347     |
| 913701263001 | DC-DRE-I-32M-001      | LS2 32 Circuit Master Enclosure          | 120/277 |
| 913701263101 | DC-DRE-I-32M-001-347  | LS2 32 Circuit Master Enclosure          | 347     |
| 913701263201 | DC-DRE-I-32MD-001     | LS2 32 Circuit Master Enclosure with DMX | 120/277 |
| 913701263301 | DC-DRE-I-32MD-001-347 | LS2 32 Circuit Master Enclosure with DMX | 347     |



## Satellite Relay Enclosure\*

| 12NC number  | Catalog number       | Description                              | Voltage |
|--------------|----------------------|--|---------|
| 912400518682 | DC-DRE-I-4S-001      | LS2 4 Circuit Satellite Relay Enclosure  | 120/277 |
| 913701263601 | DC-DRE-I-4S-001-347  | LS2 4 Circuit Satellite Relay Enclosure  | 347     |
| 912400518684 | DC-DRE-I-8S-001      | LS2 8 Circuit Satellite Relay Enclosure  | 120/277 |
| 913701263901 | DC-DRE-I-8S-001-347  | LS2 8 Circuit Satellite Relay Enclosure  | 347     |
| 912400519016 | DC-DRE-I-16S-001     | LS2 16 Circuit Satellite Relay Enclosure | 120/277 |
| 913701262901 | DC-DRE-I-16S-001-347 | LS2 16 Circuit Satellite Relay Enclosure | 347     |



## Trim Rings (Recessed Mounting Only)

| 12NC number  | Catalog number   | Description                                |
|--------------|------------------|--|
| 912400518412 | DC-DRE-TR-004    | LS2 4 Circuit Flush Trim Ring              |
| 912400518413 | DC-DRE-TR-008    | LS2 8 Circuit Flush Trim Ring              |
| 912400518414 | DC-DRE-TR-016    | LS2 16 Circuit Flush Trim Ring             |
| 912400531502 | DC-DRE-TR-32-001 | LS2 32 Circuit Master Enclosure, Trim Ring |

\* Includes relay switches (maximum of 48 relays between master and satellite).

## User Interfaces

| 12NC number  | Catalog number  | Description                               |
|--------------|-----------------|---|
| 912400518491 | DC-DRE-SP1-001  | LS2 Simple-P 1 Button User Interface      |
| 912400518492 | DC-DRE-SP2-001  | LS2 Simple-P 2 Button User Interface      |
| 912400518493 | DC-DRE-SP3-001  | LS2 Simple-P 3 Button User Interface      |
| 912400518494 | DC-DRE-SP4-001  | LS2 Simple-P 4 Button User Interface      |
| 912400518495 | DC-DRE-SP5-001  | LS2 Simple-P 5 Button User Interface      |
| 912400518496 | DC-DRE-SP6-001  | LS2 Simple-P 6 Button User Interface      |
| 912400518685 | DC-DRE-SPHK-001 | LS2 Simple-P Key Held User Interface      |
| 912400518686 | DC-DRE-SPMK-001 | LS2 Simple-P Key Momentary User Interface |



## Sensors

| 12NC number  | Catalog number  | Description  |
|--------------|-----------------|--|
| 912400521101 | DC-DRE-OIRS-001 | LS2 Occupancy Interface Remote Station*            |
| 912400520965 | DC-DRE-PCI-001  | LS2 Indoor Simple-P Photo Sensor                   |
| 912400520966 | DC-DRE-PCO-001  | LS2 Outdoor Simple-P Photo Sensor                  |
| 912400527777 | DC-DRE-PCO-SVC  | LS2 Outdoor Simple-P Replacement Photo Sensor Only |



## Auxiliary Relay Switches

| 12NC number  | Catalog number   | Description                    |
|--------------|------------------|--------------------------------|
| 912400519020 | DC-DRE-I-NO1-001 | LS2 1 Pole Normally Open Relay |
| 912400519021 | DC-DRE-I-NO2-001 | LS2 2 Pole Normally Open Relay |

## Options

| 12NC number  | Catalog number    | Description                               |
|--------------|-------------------|---|
| 912400518489 | DC-DRE-AIA-001    | LS2 Analog Input Option Card              |
| 912400529648 | DC-DRE-BCIP-001   | BACnet IP Module (ethernet IP connection) |
| 912400531260 | DC-DRE-IP-001     | TCP / IP Module                           |
| 912400518490 | DC-DRE-PSR-001    | LS2 Simple-P Power Repeater               |
| 912400534756 | DC-DRE-BCMSTP-001 | BACnet MSTP Module (RS485 connection)     |

\* Allows tie in of up to 8 OccuSwitch Classic low voltage occupancy sensors

Visit [www.philips.com/luminaires](http://www.philips.com/luminaires) to download the latest data sheets.



# Network: Building-wide Connected Solutions

# Intelligent. Integrated. Innovative.

Philips specializes in the provision of end-to-end intelligent lighting control systems, rather than just products. We know that the critical link between products like lamps, luminaires, LEDs, and a fully integrated solutions environment, is the control capability. Lighting control infrastructure underpins the fully integrated environment that is the future of building and energy management systems worldwide. When combined with the broad selection of Philips energy-efficient luminaires, Philips connected lighting systems allow users to create ambiances, develop innovative and distinctive lighting scenes and transform environments.

## Building-wide Connected Solutions



**User Interfaces**  
Controls & Sensors



**Load Controllers**



**Interface Components**

## Antumbra User Interfaces **DACM**

### The most flexible user interface solution available

Antumbra user interfaces consist of large mechanical and touch sensitive buttons that can be customized with text or icons and incorporates the latest in field effect technology. The contemporary design features a number of button configurations, with each button capable of local or site-wide control functions.

#### Field effect technology

The user interface detects an approaching user and 'wakes up', initiating a wall-wash lighting effect to encourage interaction.

#### Supplied as two components

The Application Module contains buttons, rim, base and mounting plate, which can be mixed and matched to suit décor. The Communication Module contains all of the logical and network functions and is pre-programmed off-site, allowing commissioning to commence prior to finish options being finalized. A complete control station is made up of the Application Module and Communication Module each ordered separately.

#### Hidden sensory inputs

An internal light sensor measures ambient light and adjusts lightwash effect accordingly. A built-in temperature sensor automatically adjusts air conditioning when integrated into the system.

#### Multiple language and icon labeling

Button labeling language choices include English, Chinese and Arabic. A library of common icons transcends language barriers, which is particularly useful in hospitality applications.

#### Selection of rim and fascia options

Allows décor matching to suit any environment. Refer to the User Interface Brochure for further information on color options.

#### Application module dimensions

**AntumbraButton:**  
4.6" x 2.9" x 0.9" (116 mm x 75 mm x 23 mm)

**AntumbraDisplay:**  
4.6" x 3.0" x 1.4" (116 mm x 75 mm x 36 mm)

**AntumbraTouch:**  
4.6" x 3.0" x 0.9" (116 mm x 75 mm x 22 mm)

| 12NC number  | Catalog number | Description                               |
|--------------|----------------|---|
| 913703970707 | DACM           | Communication module                      |
| 913703020309 | SP-200-647     | Optional CAT5/CAT6 Wiring Adapter (5 pcs) |

**Note:** Antumbra user interfaces are highly configurable. Please view data sheets online at [lighting.philips.com/main/products/lighting-controls/dynalite.html](http://lighting.philips.com/main/products/lighting-controls/dynalite.html) for complete specifications.



**PABPA**  
AntumbraButton  
User Interface



**PATPA**  
AntumbraTouch  
User Interface



**PADPA**  
AntumbraDisplay  
User Interface

## Standard Series **DLP**

### Blending aesthetics and function

Anything but standard, the DLP range is beautifully formed and highly functional. Built with the full Dynalite feature set, these simple yet elegant interfaces bring the full power of the automation system to the touch of a button.



#### **Aesthetically pleasing**

Provides an elegant point for integrated automation in commercial buildings and homes.

#### **Available in two configurations**

Single column, for up to five buttons and a dual column design for up to ten buttons, where more complex control is required.

#### **Incorporates a miniature**

##### **DyNet control network socket**

Discreetly located under the snap-on cover, the network socket enables system adjustments and programming from any user interface on the network.

#### **Smooth action buttons with LED indicators**

Provide tactile and visual feedback and are easily removed for engraving.

#### **Décor matching capability**

Available in a range of fascia, bezel and button cap colors and finishes.

#### **Dimensions:**

4.6" x 2.7" x 1.4" (116 mm x 68 mm x 34 mm)

| 12NC number  | Catalog number | Description                               |
|--------------|----------------|---|
| 913703890609 | DLP910         | 1 button                                  |
| 913703890709 | DLP920         | 2 button                                  |
| 913703890809 | DLP950         | 5 button                                  |
| 913703890909 | DLP960         | 6 button                                  |
| 913703891009 | DLP970         | 7 button                                  |
| 913703891109 | DLP9100        | 10 button                                 |
| 913703020309 | SP-200-647     | Optional CAT5/CAT6 Wiring Adapter (5 pcs) |

**Note:** Additional switch configurations and options available. See data sheets for details.

## Classic Series DPN

### Contemporary styling to suit any application

The Philips DPN series user interfaces are a popular choice for commercial and residential applications, providing an integrated automation solution.



#### Available in a range of finishes

Supplied as standard in high quality brushed stainless steel, user interfaces are also available in custom powder coat colors on request.

#### LED status indicators on each button

Provides tactile and visual feedback on system operation.

#### Removable button caps

Allows engraving for easy identification of button function.

#### Available in 13 standard layouts

Incorporates the most commonly used control scenarios.

#### Button color choices

Supplied in silver as standard, with black bezel and black engraving, button caps are also available in charcoal gray as a standard option.

#### Custom features available

Optional devices including faders, displays, key switches, plug sockets and engraving are available for unique control solutions.

#### Dimensions

4.5" x 2.8" x 1.3" (115 mm x 72 mm x 34 mm)

| 12NC number  | Catalog number | Description                               |
|--------------|----------------|---|
| 913703096709 | DPN308N        | 0 button with 1 DyNet network socket      |
| 913703099309 | DPN914         | 1 button with ON/OFF toggle               |
| 913703094409 | DPN941         | 4 button preset 1–3, OFF                  |
| 913703205409 | DPN963         | 6 button preset 1–3, UP, DOWN, OFF        |
| 913703093209 | DPN981         | 8 button preset 1–7, OFF                  |
| 913703093509 | DPN982         | 8 button programming                      |
| 913703094109 | DPN982D        | 8 button programming with keyswitch       |
| 913703083409 | DPN9103        | 10 button preset, 1–7, UP, DOWN, OFF      |
| 913703020309 | SP-200-647     | Optional CAT5/CAT6 Wiring Adapter (5 pcs) |

**Note:** Additional switch configurations and options available. See data sheets for details.

## Revolution Series DR2PA

### Clip-on cover system provides the ultimate design flexibility

The Revolution series of user interfaces provides a direct connection to the DyNet network. The devices can communicate directly with each other, with lighting load controllers and with other integration devices, offering a simple user interface capable of complex automation system functions.



#### Extensive designer range

Innovative clip-on cover fastening system provides the ultimate flexibility in décor-matching. Standard finishes include brushed stainless steel and white or black glass. Custom options available in wood grain, processed stone, laminate or fabric.

#### Custom engraving options

Identification of button function is made simple through custom engraving. Buttons can be labeled to identify purpose or area, providing accurate explanation of function. Backlighting assists to locate the UI and provides ease of readability, even in a darkened environment.

#### Standard control options

Each button can be programmed to perform a range of standard control options that are individually configured to perform functions including toggle lighting on/off and ramp lighting up/down.

#### A choice of button colors

To complement the cover color and finish choice, buttons available in silver, white or charcoal gray.

#### LED status indicators

Easily discern which mode is in operation via the LED indicator on each button.

#### Complex functionality in a single action

A single button press can be used to effect an entire system change, providing a true automation solution.

#### Designed to meet any requirement

Available in one to 24 button configurations, the Revolution series user interfaces can be designed to perform as many or as few functions as required.

#### Dimensions

4.6" x 2.9" x 1.2" (117 mm x 75 mm x 30 mm)

| 12NC number  | Catalog number | Description                               |
|--------------|----------------|---|
| ---          | DR2PA          | Revolution Series                         |
| 913703020309 | SP-200-647     | Optional CAT5/CAT6 Wiring Adapter (5 pcs) |

**Note:** Revolution Series is highly configurable. See data sheets for details.

## Color Touchscreen DTP100

### A feature-rich color LCD touchscreen

A Philips touchscreen adds a new dimension of control to any automation application. The DTP100 supports a range of features that provide end-users with the ultimate in automation system interaction. The screen interface can be customized to control all automation elements from one location. The device features a screen size of 2.2" H x 3.7" W (56 mm x 95 mm).



#### Vivid graphics and sophisticated onscreen controls

Objects such as logos, buttons, faders, floor plans and diagnostic icons can be placed on pages to perform simple or complex control functions.

#### Simple page creation

Easy-to-use pages are created using Philips touchscreen editor and JavaScript is fully supported.

#### Windows operating system and full internet connectivity

Runs Windows CE 6.0 and Internet Explorer 6. Full Windows Media Player 9 and MP3 file support.

#### Décor matching capability

The innovative clip-on fascia can be matched with Revolution series user interfaces, or customized using practically any flat architectural medium.

#### Dimensions

3.5" x 5.8" x 0.2" (88 mm x 146 mm x 6 mm)

| 12NC number  | Catalog number              | Description            |
|--------------|-----------------------------|------------------------|
| 913703074509 | DTP100                      | Stainless steel fascia |
| 913703074609 | DTP100-BG                   | Black glass fascia     |
| 913703074709 | DTP100-WG                   | White glass fascia     |
| 913703075309 | DTP100-WALLBOX-RECESS-METAL | Recess metal wallbox   |
| 913703075909 | DTP100-WALLBOX-SURFACEMOUNT | Surface mount wallbox  |

**Note:** Custom finishes available – Ask your Philips representative.

## Color Touchscreen DTP170

### A feature-rich color LCD touchscreen

A Philips touchscreen adds a new dimension of control to any automation application. The DTP170 supports a range of features that provide end-users with the ultimate in automation system interaction. The screen interface can be customized to control all automation elements from one location. The device features a screen size of 3.7" H x 6.1" W (94 mm x 155 mm).



#### Vivid graphics and sophisticated onscreen controls

Objects such as logos, buttons, faders, floor plans and diagnostic icons can be placed on pages to perform simple or complex control functions.

#### Simple page creation

Easy-to-use pages are created using Philips touchscreen editor and JavaScript is fully supported.

#### Windows operating system and full internet connectivity

Runs Windows CE 6.0 and Internet Explorer 6. Full Windows Media Player 9 and MP3 file support.

#### Décor matching capability

The innovative clip-on fascia can be matched with Revolution series user interfaces, or customized using practically any flat architectural medium.

#### Dimensions

5.9" x 9.2" x 0.3" (149 mm x 233 mm x 7 mm)

| 12NC number  | Catalog number | Description                                      |
|--------------|----------------|--|
| 913703075709 | DTP170         | Stainless steel fascia – No wallbox              |
| 913703076109 | DTP170-WB      | Stainless steel fascia with wallbox              |
| 913703076409 | DTP170-BG      | With black borosilicate glass fascia             |
| 913703075409 | DTP170-SG      | With white optically clear starfire glass fascia |
| 913703076209 | DTP170-WALLBOX | Wall box   |

**Note:** Custom finishes available – Ask your Philips representative

## Multifunction Sensor DUS360CR

### Low profile 360° recess mounted ceiling sensor

The DUS360CR is a recess mountable 360° multifunction sensor that combines motion detection (PIR), Infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, lecture theaters and homes.



#### Motion detection feature

Detects the presence or absence of motion and adjusts lights accordingly.

#### Segmented click-up bezel

Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors.

#### Ambient light level detection and daylight harvesting

In applications where it is critical to maintain precise light, the PE function reads ambient levels and adjusts artificial light accordingly.

#### Infrared receive capability

Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor of the DUS360CR.

#### Daylight Harvesting mode

Delivers automatic energy savings.

#### Dimensions

2.8" dia. x 1.6" (72 mm dia. x 41 mm)

#### Suitable for plenum use

UL approved for installation in air-handling plenum spaces

| 12NC number  | Catalog number       | Description                                |
|--------------|----------------------|--|
| 913703500709 | DUS360CR             | Multifunction Sensor                       |
| 913700359103 | IRT9090/01           | IR Remote Control                          |
| 913703064409 | DINGUS-DUS-RJ45-DUAL | Optional CAT5/CAT6 Wiring Adapter (10 pcs) |

## Multifunction Sensor DUS360CS-UP

### Surface mount ceiling sensor with ultrasonic capability

The DUS360CS-UP is a surface mountable 360° multifunction sensor that combines ultrasonic (UP), motion detection (PIR), Infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, lecture theaters and homes.



#### Motion detection feature

Detection of motion within scanned area triggers a programmed lighting action.

#### Ambient light level detection and daylight harvesting

In applications where it is critical to maintain precise light, the PE function reads ambient levels and adjusts artificial light accordingly.

#### Infrared receive capability

Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor of the DUS360CS-UP.

#### Daylight Harvesting mode

Delivers automatic energy savings.

#### Dimensions

3.5" dia. x 1.3" (90 mm dia. x 32 mm)

| 12NC number  | Catalog number       | Description                                |
|--------------|----------------------|--|
| ---          | DUS360CS-UP          | Multifunction Sensor                       |
| 913703064409 | DINGUS-DUS-RJ45-DUAL | Optional CAT5/CAT6 Wiring Adapter (10 pcs) |

## Universal Sensor **DUS90W**

### Combination PIR, IR and PE sensing

The DUS90W is a wall mountable 90 degree universal sensor that combines motion detection (PIR), Infrared remote control reception (IR) and ambient light level detection (PE) into one device in applications such as offices, lecture theaters and homes.



#### Motion detection feature

Detects the presence or absence of motion and adjusts lights accordingly.

#### Ambient light level detection and daylight harvesting

In applications where it is critical to maintain precise light, the PE function reads ambient levels and adjusts artificial light accordingly.

#### Infrared receive capability

Manually adjust light levels using a hand-held remote control, via the inbuilt IR receive sensor of the DUS90W.

#### Multiple mounting options

This device is also available in a Long Range version (DUS30W-LR) for corridor applications.

#### Dimensions

3.3" x 2.6" x 1.8" (84 mm x 65 mm x 46 mm)

| 12NC number  | Catalog number       | Description                                |
|--------------|----------------------|--|
| ---          | DUS90W               | Wall mount wide angle                      |
| ---          | DUS30W-LR            | Long range lens (option)                   |
| 913703064409 | DINGUS-DUS-RJ45-DUAL | Optional CAT5/CAT6 Wiring Adapter (10 pcs) |

# Load Controllers

## Ordering Information

### Captivation Driver Controllers

#### Control without compromise

Captivation products include two controllers - a Phase Dimmer and a 0-10V Relay Dimmer. Together, the two Captivation controllers empower users to control nearly any type of switched and dimming lighting load in commercial applications. Captivation has been designed to meet today's regulations, practices and standards, allowing for simple 'at-the-circuit' lighting control installation without the complexity often associated with lighting control wiring and programming.

**The Captivation products encompass two controllers** the Captivation Phase Dimming Controller and Captivation 0-10V Relay Controller.

**Full compatibility** with all Dynalite user interfaces, load controllers and accessories.

**Ideally suited** to the demanding requirements of commercial, hospitality and office applications.

**Enabling complete control of any 120V or 277V lighting circuit via just two controllers,** Captivation can be used for standalone and networked lighting control solutions.

**Able to be installed easily and quickly by electricians,** Captivation minimizes the time and cost usually associated with commissioning.

**Sold as a distributed controller, rather than in a large cabinet,** Captivation controllers can be mounted to any contractor supplied 4 x 4 junction box.

**With enhanced functionality (Compared with competing lighting control products)** Captivation provides a complete solution without the requirement for expensive additional infrastructure hardware.

**Low voltage control wiring can be run in both 'free-air' or conduits and uses common serial or CAT5 cabling,** allowing it to meet all wiring requirements in Canada and the United States without requiring a different model or complicated adapters.

**Motion sensor input and power supply** for direct connection of a +24V DC motion sensor.

**Dimensions**  
8.27" x 2.79" (210.1 mm x 70.9 mm)

### Captivation Phase Dimmer

Allows 600W forward or reverse-phase dimming control (changeable in the field) of any 120V or 277V lighting circuit all in one model. This effectively ensures that the correct dimmer is always provided for the fixture – regardless of the exact nature of the fixture to be controlled.



| 12NC number  | Catalog number  | Description   |
|--------------|-----------------|---|
| 912400484635 | DC-DPD-I-1S-101 | Standard Product - Phase Dimmer - 1 Circuit                           |
| 912400484633 | DC-DPD-I-1C-101 | 0-10V + Relay 1 Circuit (meeting City of Chicago Plenum requirements) |
| 912400484633 | DL-CP-ZIPPY-NA  | Captivation Handheld DMX Addressing Unit                              |

### Captivation 0-10V Relay Dimmer

Similar to the Phase Dimmer the 0-10V Relay Dimmer enables both 16A switching and 0-10V Mark 7 style dimming control of any 120V or 277V lighting circuit.



| 12NC number  | Catalog number  | Description  |
|--------------|-----------------|--|
| 912400484639 | DC-DRD-I-1S-101 | Standard Product - 0-10 + Relay - 1 Circuit                          |
| 912400484637 | DC-DRD-I-1C-101 | 0-10V+ Relay 1 Circuit (meeting City of Chicago Plenum requirements) |
| 912400532645 | DL-CP-ZIPPY-NA  | Captivation Handheld DMX Addressing Unit                             |



## Multipurpose Modular Controller **DMC**

### Controls different load types with one device

The Dyalite DMC provides multichannel control via interchangeable modules. The device is available with a variety of control modules to handle various load types and capacities.

#### Single controller solution

Control a multitude of load types from one device, suited to any market segment requiring indoor lighting or relay control.

#### Phase cut dimmer module

Selectable per channel for Leading or Trailing Edge output. Compatible with most dimming loads.

#### Driver control module

Suitable for controlling 0-10V, DSI and DALI Broadcast drivers. A built-in relay removes power when channel level is at 0%.

#### Relay control module

Suitable for controlling most types of switched loads.

#### Flexible mounting solution

Surface or recess mountable enclosure.

#### Passive cooling

Fanless design reduces noise, power consumption and maintenance costs.

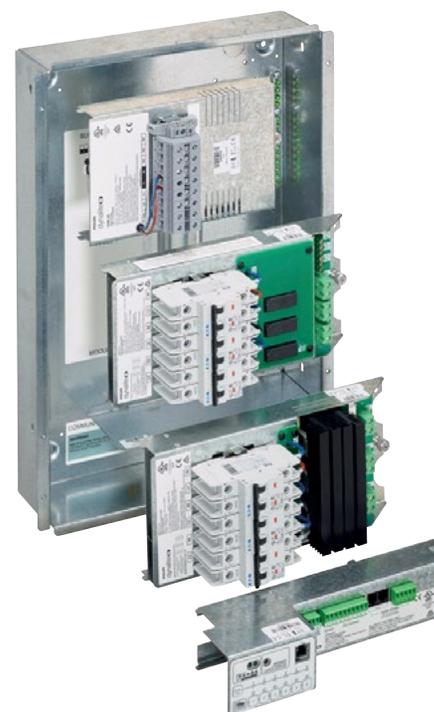
#### Dimensions

**DMC2:** 21.3" x 15" x 4.1" (540 mm x 380 mm x 103 mm)

**DMC4:** 32.7" x 17.5" x 4.2" (830 mm x 445 mm x 106 mm)

| 12NC number                               | Catalog number | Description   |
|---|----------------|---|
| <b>Enclosures</b>                         |                |   |
| 913703666009                              | DMC2-UL        | DMC2 Enclosure  |
| 913703667809                              | DMC4-UL        | DMC4 Enclosure  |
| <b>Communication Modules</b>              |                |   |
| 913703666209                              | DCM-DYNET      | DMC Dynet Communication Module  |
| <b>Power Supply Modules</b>               |                |   |
| 913703500509                              | DSM2-XX        | DMC2 Power Supply Module  |
| 913703668009                              | DSM4-XX        | DMC4 Power Supply Module  |
| <b>Load Control Modules</b>               |                |   |
| 913703667509                              | DMD316-UL*     | Signal Control - 3x16A, 120-277V with switched outputs. 0-10V, DALI broadcast, DALI addressing              |
| 913703668709                              | DMD316-FR-UL*  | Signal Control - 3x16A, 120-347V with feed-through switched outputs. 0-10V, DALI broadcast, DALI addressing |
| 913703667609                              | DMP310-GL-UL   | Phase Control - 3x10A, 120-277V, leading/trailing edge  |
| 913703668409                              | DMP603-GL-UL   | Phase Control - 6x3A, 120-277V, leading/trailing edge   |
| 913703667409                              | DMR316-UL      | Relay - 3x16A, 120-277V with switched outputs   |
| 913703668109                              | DMR610-GL-UL   | Relay - 6x10A, 120-277V with switched outputs   |
| <b>Optional Cat5/Cat6 Wiring Adapters</b> |                |   |
| 913703064209                              | DINGUS-DMC-UL  | Dingus for use with DMC modules (10 pcs)  |

\* Consult Philips for availability of DALI enumeration capability.



### 10/100 BaseT Gateway **envisiongateway**

#### Multipurpose Ethernet connection

EnvisionGateway provides a multipurpose Ethernet connection to a Dynalite lighting control system. It supports access to both home or office lighting via a dedicated Philips app as well as providing a web interface delivering access to the inbuilt timeclock and schedule editor functions. It provides bridging functionality between Ethernet backbone and the DyNet fieldbus devices.



#### Large storage capacity

The device stores large project files internally, which apps use to autoconfigure their settings. This saves configuration time and ensures accuracy for phone and tablet control.

#### Inbuilt web server

Allows the user to check system settings via the Network Hardware Checker and System Roll Call tools.

#### No technical skills needed

Inbuilt timeclock and schedule manager allow the user to manage operation and task scheduling without advanced technical knowledge.

#### Powerful custom task engine

Allows users or third-party systems to run macros, such as 'After Hours', 'Shut Down', 'Welcome' and more.

#### Advanced interoperability

Supports management of Dynalite and Connected Lighting Solutions luminaires on a single system.

#### Dimensions:

3.8" x 4.3" x 1.5" (97 mm x 110 mm x 38 mm)

| 12NC number  | Catalog number  | Description          |
|--------------|-----------------|----------------------|
| 913703013809 | envisiongateway | 10/100 BaseT Gateway |

### RS232 Network Gateway **DNG232-NA**

#### Cost-effective serial port integration

The Philips DNG232 -NA network gateway provides cost-effective serial port integration between a DyNet network and third-party systems.



#### Seamless integration with third-party systems

Including AV systems, data projectors, HVAC, BMS, motorized shades/screens, and security systems.

#### Internal controls

Including programmable logic controller capable of comprehensive conditional and sequential logic and arithmetic function processing.

#### Utilize data format library or create your own

A library of data formats is available for systems integrators, or can be created using the onboard conditional logic engine to assemble and transmit user-defined data strings.

#### Macro functions available

To simplify the control of multiple devices.

#### Flexible mounting solution

DIN-rail mountable, designed to be installed into a distribution board or other electrical enclosure.

#### Dimensions

3.7" x 8.3" x 2.9" (94 mm x 211 mm x 75 mm)

| 12NC number  | Catalog number | Description           |
|--------------|----------------|-----------------------|
| 913703581209 | DNG232-NA      | RS232 Network Gateway |

## Network Gateways **DMNG-NA or DTK622-J**

### Passive network integration

The network gateways provide passive integration to a PC or RS232 system.

#### Available in two formats

With either RS232 or USB connector.

#### Full duplex integration to RS232

Useful for linking the Dyalite control system with an AV or air conditioning system that supports RS232 communications.

#### Dimensions

0.9" x 2.0" x 3.6" (24 mm x 51 mm x 91 mm)

#### Simple network accessibility via USB

Complete access to all network messages present on DyNet. To be used in conjunction with any of the Philips connected lighting software, this tool can be used to commission, diagnose/repair with Dyalite Commissioning Software or used as a permanent gateway to the system for the Philips Indoor Lighting Management Platform head-end software.



| 12NC number  | Catalog number | Description   |
|--------------|----------------|---------------|
| 913703580109 | DMNG-232-NA    | RS232 Version |
| 913703090209 | DTK622-USB-J   | USB Version   |
| 913703580009 | DMNG-USB-NA    | USB Version   |

### Network Gateway **DDNG485-NA**

#### Flexible network communications gateway for DyNet RS-485 networks

DDNG485-NA is a flexible network communications bridge designed for RS-485 networks. The two opto-isolated RS-485 ports enable the DDNG485-NA to implement a trunk and spur topology on large project sites, with the bridge providing a high-speed backbone opto-coupled to many lower speed spurs.



#### Electrical fault isolation

Faults can be isolated to individual network spurs.

#### Route DyNet to third-party systems

Such as audio-visual and building automation systems, providing an integrated approach to total building control and energy management.

#### DMX512 mode

Transmit or receive up to 64 channels of DMX512, with automatic DyNet conversion and task triggering. Provides temporary control of house lights from the DMX512 console in an auditorium scenario.

#### Internal controls

Including programmable logic controller capable of assembly and transmission of user-defined data strings.

#### Flexible mounting solution

DIN-rail mountable, designed to be installed into a distribution board or other electrical enclosure.

#### Dimensions:

3.8" x 4.1" x 2.9" (95 mm x 105 mm x 75 mm)

| 12NC number  | Catalog number | Description     |
|--------------|----------------|-----------------|
| 913703581009 | DDNG485-NA     | Network Gateway |

### Low Level Input Integrator **DDMIDC8-NA**

#### Cost-effective input integration

The DDMIDC8 is designed to enable cost-effective input integration to your Philips Connected Lighting system from third-party systems such as Security, HVAC and BMS.



#### Eight digital inputs

Each can be individually configured as a dry contact or 0-24V AC/DC input.

#### LED indicator on each input

Provides visual status indication.

#### Optical isolation

All inputs isolated for high noise immunity.

#### Four 0-5/0-10V analogue inputs

Software selectable.

#### Programmable Logic Controller

Processes comprehensive conditional and sequential logic and arithmetic functions.

#### Dimensions

3.8" x 4.1" x 2.9" (95 mm x 105 mm x 75 mm)

| 12NC number  | Catalog number | Description                |
|--------------|----------------|----------------------------|
| 913703580209 | DDMIDC8-NA     | Low Level Input Integrator |

## BACnet Network Gateway DDNG-BACnet

### High level BACnet network integration

The DDNG-BACnet gateway allows for high level integration between your Philips Connected Lighting system and any building management system (BMS) that uses the BACnet protocol.



#### Direct control of lighting system

Permits direct control of the lighting system via the building's BMS network.

#### Interrogation ability

Allows interrogation of any area within the network for feedback of current lighting status.

#### A range of options

Provides solutions suitable for both small and large scale installations.

#### Dimensions

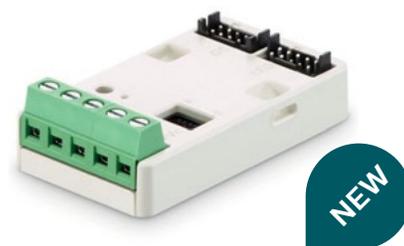
4.0" x 6.7" x 2.9" (101 mm x 170 mm x 75 mm)

| 12NC number  | Catalog number   | Description                  |
|--------------|------------------|------------------------------|
| 913703001309 | DDNG-BACnet-1000 | 1000 address point interface |

## Dry Contact Interface DLLI8180

### Eight-way dry contact interface

The DLLI8180 is an eight-way dry contact interface with LED indicator outputs, that allows mechanical and electronic switches to communicate directly to the DyNet network.



#### Compact size

Allows installation in electrical wall boxes for easy integration with third-party user interfaces.

#### Eight indicator outputs

Each output is individually programmable to drive an external LED indicator sharing a common cathode, communicating current system status or settings.

#### Dimensions

2.1" x 1.2" x 0.6" (53 mm x 30 mm x 15 mm)

#### Eight dry contact inputs

Each dry contact trigger is individually programmable for a range of tasks.

#### Allows up to 65 ft. (20m) cable runs

Enables convenient connection to dry contact interfaces in multiple rooms.

| 12NC number  | Catalog number | Description           |
|--------------|----------------|-----------------------|
| 913703023009 | DLLI8180       | Dry Contact Interface |

## Philips Indoor Lighting Management Platform

### Multi-user control system management and monitoring software

It provides users with full visibility of the lighting and energy management system status and performance, while enabling simple local or global system adjustments.



**Complete control**

Initiate system changes, from a single lamp to the lighting state of an entire multi-story building, with a single mouse click.

**Simple scheduling**

Intuitive tools enable the user to schedule and manage events such as 'office space to day mode' or 'garages/parking lots to after-hours security mode' with ease.

**Easy integration**

Integration tools allow the user to manage more than just lighting. HVAC, motorized window shades and other systems are accessible through envision manager.

**Manage routine maintenance**

Full support of maintenance functions means that routine tasks can be undertaken without the involvement of a system specialist. Faults are automatically flagged for attention, ensuring that the facility continues to function and operational downtime is minimized.

**Strike the balance**

Alternate energy management schemes can be initiated automatically or manually, as required. Envision allows Facility Managers to balance energy efficiency with the needs of the occupants and can be initiated on either a tenancy or building-wide basis.

**Identify energy-saving initiatives based on current use**

EnvisionDashboard presents live data as simple visual displays. It mines raw data for analysis, to both establish a benchmark for future improvements and pinpoint exactly where energy is being used.

**Tailored control of individual light fittings**

The optional EnvisionSwitch client resides in the task bar of a user's computer and allows task lighting to be tailored to the user's individual preferences. Linking back to the lighting control system ensures lights are not left on unnecessarily.

| 12NC number    | Catalog number | Description                                 |
|----------------|----------------|---|
| SW913703089909 | ---            | Philips Indoor Lighting Management Platform |

## Envision Manager



SiteMap page



Console page



Maintenance page

## Philips Commissioning Software

### Fast and efficient lighting control system set-up

Designed with the system installer and integrator in mind, our commissioning software is the latest rapid commissioning platform from Philips. This user-friendly and intuitive application sets a new benchmark for fast and efficient lighting control system set-up and commissioning.



#### **New and improved set-up templates**

Provides a simple and intuitive interface for access to advanced system functionality, allowing flexibility to modify, customize or create specific tasks if required.

#### **Faster commissioning times**

Includes a series of common device settings based on typical lighting control scenarios. Tailor to your project, save and replicate across other sites as required.

#### **Virtual panel**

Control any area of the system directly, run sequences and test final operations.

#### **Complex functionality made simple**

Manage logical grouping of lamps and other system hardware elements using simple graphical representations.

#### **Maintenance made easy**

Print out project floor plans with fixture details, including DALI addresses, to facilitate maintenance planning.

#### **Live data details**

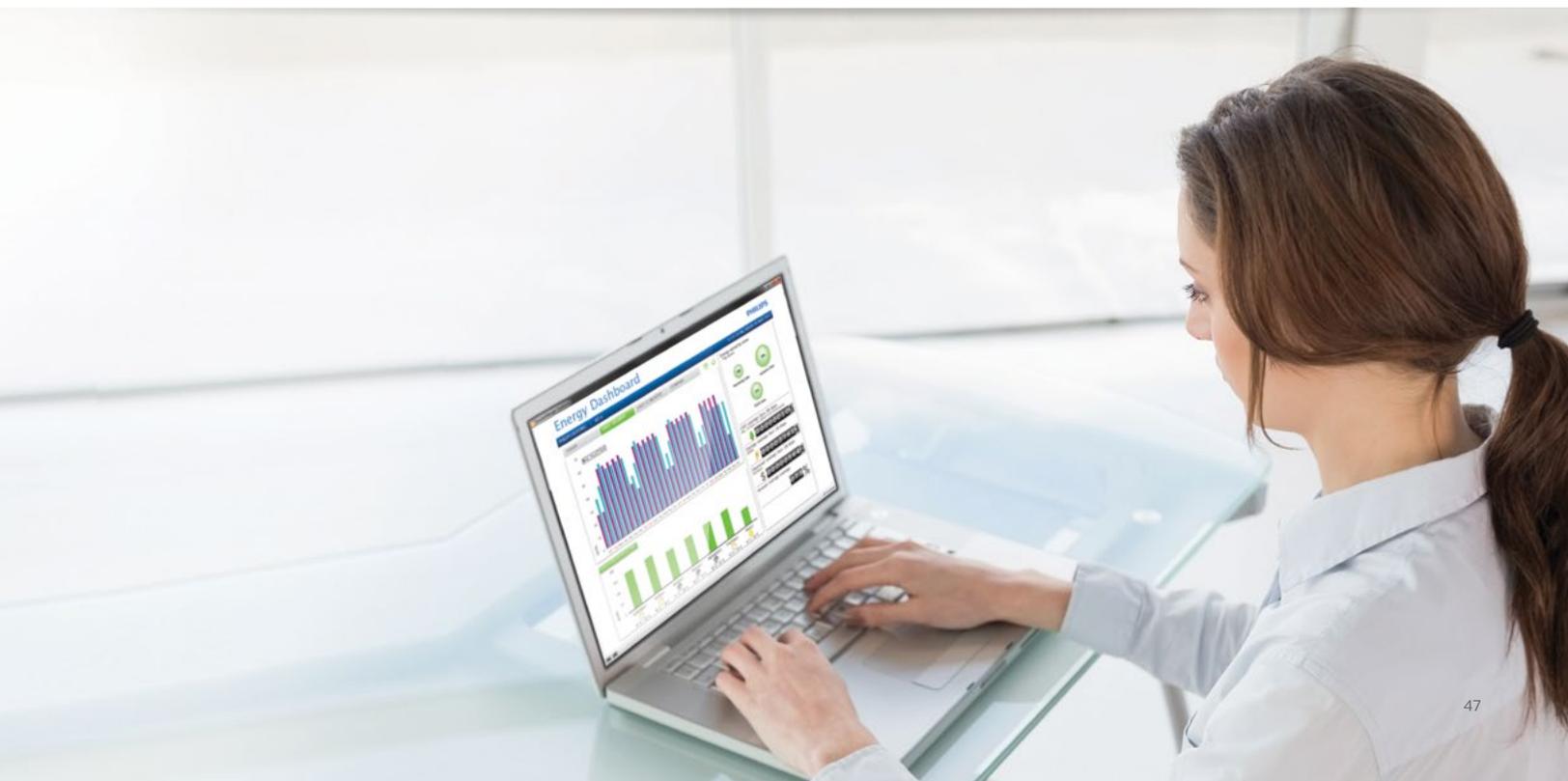
The status of each lamp is visually represented using icons, which change color to reflect current lighting levels.

#### **Monitor the whole system**

Inbuilt network monitor details and logs all Philips network traffic, as well as DALI network traffic.

#### **Ordering Code**

Please contact your local Philips Representative.



# Looking for a total lighting solution?

## A Total Lighting Solution

Philips Lighting's One-Stop, Comprehensive Solution provides customers with a total 'BEST VALUE' plan. Our plan can be achieved in five strategic steps:

1. Understand your city's objectives, needs and lighting requirements set forth by federal and local jurisdictions.
2. Determine the best product solutions that meet your project's criteria.
3. Collaborate with Philips to customize a competitive financing plan.
4. Work with a Philips representative to set up product delivery dates, installation, and controls commissioning.
5. Survey your customers and analyze your data reports to determine if lighting and controls adjustments are needed.

## Recommended Technical References and Guidelines

- IESNA Lighting Handbook 10th Edition
- IES Recommended Practices
- Designlights Consortium  
[www.designlights.org](http://www.designlights.org)
- DOE Municipal Solid-State Street Lighting Consortium Model Specification  
[www1.eere.energy.gov/buildings/ssl/consortium.html](http://www1.eere.energy.gov/buildings/ssl/consortium.html)
- ANSI C136.41
- CEC Title 24
- ASHRAE Standard 90.1-2013
- CEC Title 20 for self contained control devices
- LRC

# Contact us for answers from inspiration to installation.

## Customer Care and Maintenance

- Operational training
- 24/7 customer care
- Responsive maintenance

## Identify City's Needs and Requirements

- Project assessment
- Investment grade audit

## Turn-key Installation Services

- Experienced project management
- Cost and time efficient
- Single point of contact

## Design Solution

- Measurement and verification
- Efficient design
- Advanced technologies
- Cutting edge lighting products
- State-of-the-art control systems

## Customized and Competitive Financing

- Collaborate to customize a competitive financing plan



No matter what type of indoor lighting control you need, **we can help you to find the right solution.**

Call 800-372-3331, option 1 (US) / 800-668-9008 (Canada)  
or visit [philips.com/lightingcontrolsna](https://philips.com/lightingcontrolsna) and select 'Controls Indoor' for more information.



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