Energy saving lighting controls solutions
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Energy saving lighting controls solutions from Philips

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Energy saving lighting controls solutions

With a full line of indoor and outdoor lighting control solutions, Philips is the only manufacturer your facility needs. The simple stand-alone indoor and outdoor controls make it easy for your facility to utilize cutting edge lighting controls to maximize your energy and maintenance savings while at the same time meeting the needs of your facility’s occupants and your community.

Why Philips makes sense

• Philips can provide for all of your facility’s lighting and controls needs with one point of contact.

• Philips products are designed to work together. With lighting systems and controls becoming increasingly sophisticated, Philips makes it easy because our lamps, ballasts, drivers and controls have been engineered to work together.

• All of Philips lighting control products are scalable. With facilities trending from stand-alone controls to large indoor and outdoor multisite networks, Philips is designing for the future so that our current solutions can work with and complement larger Philips controls network solutions.
Indoor stand-alone controls

With professional facilities coming under increased pressure to protect their bottom lines, energy efficient lighting and energy management control systems will help them to meet their energy saving goals.

Through the use of occupancy and/or daylight harvesting sensors, facilities can realize immediate energy savings on their lighting energy bills. Proper lighting controls may also be able to decrease a facility’s maintenance costs by potentially prolonging the relamping cycle.

On the following pages you will find a brief overview of our indoor stand-alone control products. Please contact your local Philips sales representative or distributor to learn more about these products and how Philips Lighting controls solutions can help you achieve your sustainability goals.
OccuSwitch Wireless Control System

Description
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. With a battery engineered for an estimated 10-year life and a 2-year limited product warranty, the OccuSwitch Wireless family of products can be easily installed to deliver long-lasting energy savings.

Features and Benefits
• 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 24-2010 energy efficiency device code requirements
• Up to 16 devices can be linked together to control one space

Compatibility
• OccuSwitch Sensor (LRM1743) and Wall Switches (LRA1721) are compatible with Optanium programmed start and Centium electronic fluorescent ballasts as well as Xitanium LED drivers
• OccuSwitch Sensor and photocell (LRM1760) and Wall Dimmer (LRD1730) are compatible with Philips Advance Mark 10 Powerline and dimming ballasts

OccuSwitch Wireless: Occupancy Sensor and Wall Switches

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage</th>
<th>Mounting</th>
<th>Sensing</th>
<th>Technology</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRM174300</td>
<td>Wireless On/Off Occupancy Sensor</td>
<td>Offices, Conference area, Common work areas, Utility/break rooms, Classrooms</td>
<td>24' x 18', 360° coverage at 8' ceiling</td>
<td>Ceiling up to 12'</td>
<td>Occupancy</td>
<td>Passive infrared</td>
<td>Wireless setup and communication, Networkable (16 devices), Auto adjusting, Adjustable sensor shield</td>
</tr>
<tr>
<td>LRM176000</td>
<td>Wireless Occupancy and Photocell</td>
<td>Offices, Classrooms</td>
<td>50' x 50'</td>
<td>Corner</td>
<td>Occupancy, Daylight Holdback</td>
<td>Passive Infrared, Photocell</td>
<td>Wireless, Auto Adjusting</td>
</tr>
<tr>
<td>LRM1771</td>
<td>Wireless Corner Mount Occupancy Sensor</td>
<td>Offices, Classrooms</td>
<td>50' x 50'</td>
<td>Wall</td>
<td>Occupancy, Daylight Holdback</td>
<td>Passive Infrared, Photocell</td>
<td>Wireless, Auto Adjusting</td>
</tr>
<tr>
<td>LRM1776</td>
<td>Wireless Wall Mount Occupancy Sensor</td>
<td>Offices, Classrooms</td>
<td>150' x 20'</td>
<td>Wall</td>
<td>Occupancy, Daylight Holdback</td>
<td>Passive Infrared, Photocell</td>
<td>Wireless, Auto Adjusting</td>
</tr>
<tr>
<td>LRM1766</td>
<td>Wireless Corridor Occupancy Sensor</td>
<td>Corridors</td>
<td>150' x 20'</td>
<td>Wall</td>
<td>Occupancy, Daylight Holdback</td>
<td>Passive Infrared, Photocell</td>
<td>Wireless, Auto Adjusting</td>
</tr>
</tbody>
</table>

OccuSwitch Wireless: Wall Switches

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRA172100</td>
<td>Wireless Wall Switch, 120/277 VAC (White)</td>
</tr>
<tr>
<td>LRA172101</td>
<td>Wireless Wall Switch, 120/277 VAC (Ivory)</td>
</tr>
</tbody>
</table>

OccuSwitch Wireless: Wall Dimmers

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRD173000</td>
<td>Wireless Wall Dimmer, 120/277 VAC (White)</td>
</tr>
<tr>
<td>LRD173001</td>
<td>Wireless Wall Dimmer, 120/277 VAC (Ivory)</td>
</tr>
</tbody>
</table>
OccuSwitch Classic Lighting Controls

Description
The OccuSwitch Classic family of lighting controls are a full line of indoor occupancy control products. 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 can make it easy for you to save on energy.

Features and benefits
• 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 24-2010 energy efficiency device code requirements

OccuSwitch Classic: Wall Switch Sensors

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage</th>
<th>Mounting</th>
<th>Technology</th>
<th>Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRS221000</td>
<td>Wall Switch Sensor, Single Switch (White)</td>
<td>• Small offices • Conference rooms • Classrooms • Lounges • Other commercial applications</td>
<td>2100 sq. ft. Adjustable 60°–180° horizontal field of view</td>
<td>Wallbox</td>
<td>Passive infrared</td>
<td>• Optanium programmed start fluorescent ballasts • Titanium LED drivers</td>
<td>Fits into existing standard wallbox • On/off occupancy sensing • Optional daylight holdback • Automatic adjustment to occupancy patterns • Segmentated Fresnel lens increases sensitivity to “small motion”</td>
</tr>
<tr>
<td>LRS221001</td>
<td>Wall Switch Sensor, Single Switch (Ivory)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LRS223000</td>
<td>Wall switch Sensor, Single Night Light (White)</td>
<td>• Offices • Classrooms • Restrooms • Utility/storage rooms</td>
<td>2400 sq. ft. Adjustable 60°–180° horizontal field of view</td>
<td>Wallbox</td>
<td>Multi-tech</td>
<td>• Optanium programmed start fluorescent ballasts • Titanium LED drivers</td>
<td>Multi-tech sensing can reduce false ons and offs • On/off occupancy sensing • Fits into existing wallboxes • Optional daylight holdback • Automatic adjustment to occupancy patterns</td>
</tr>
<tr>
<td>LRS223001</td>
<td>Wall Switch Sensor, Single Night Light (Ivory)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>LRS222000</td>
<td>Wall Switch Sensor, Single Switch, 120/277 VAC (White)</td>
<td>• Offices • Classrooms • Restrooms • Utility/storage rooms • Training rooms</td>
<td>2100 sq. ft. Adjustable 60°–180° horizontal field of view</td>
<td>Wallbox</td>
<td>Multi-tech</td>
<td>• Optanium programmed start fluorescent ballasts • Titanium LED drivers</td>
<td>Dual relay on/off occupancy sensing • Multi-tech sensing can reduce false ons and offs • Fits into existing wallboxes • Optional daylight holdback • Automatic adjustment to occupancy patterns</td>
</tr>
<tr>
<td>LRS222001</td>
<td>Wall Switch Sensor, Single Switch, 120/277 VAC (Ivory)</td>
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</tbody>
</table>

OccuSwitch Classic: Wall Switch Sensors, Dual Relays

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage</th>
<th>Mounting</th>
<th>Technology</th>
<th>Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRS222500</td>
<td>Wall Switch, Dual Relay, 120/277 VAC (White)</td>
<td>• Offices • Classrooms • Restrooms • Utility/storage rooms</td>
<td>2100 sq. ft. Adjustable 60°–180° horizontal field of view</td>
<td>Wallbox</td>
<td>Multi-tech</td>
<td>• Optanium programmed start fluorescent ballasts • Titanium LED drivers</td>
<td>Dual relay on/off occupancy sensing • Multi-tech sensing can reduce false ons and offs • Fits into existing wallboxes • Optional daylight holdback • Automatic adjustment to occupancy patterns</td>
</tr>
<tr>
<td>LRS222501</td>
<td>Wall Switch, Dual Relay, 120/277 VAC (Ivory)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LRS221500</td>
<td>Wall Switch Sensor, Dual Relay, 120/277 VAC (White)</td>
<td>• Offices • Classrooms • Restrooms • Utility/storage rooms</td>
<td>2100 sq. ft. Adjustable 60°–180° horizontal field of view</td>
<td>Wallbox</td>
<td>Passive infrared</td>
<td>• Optanium programmed start fluorescent ballasts • Titanium LED drivers</td>
<td>Dual relay on/off occupancy sensing • Fits into existing wallboxes • Optional daylight holdback • Automatic adjustment to occupancy patterns</td>
</tr>
<tr>
<td>LRS221501</td>
<td>Wall Switch Sensor, Dual Relay, 120/277 VAC (Ivory)</td>
<td></td>
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</tr>
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### OccuSwitch Classic: Wall and Ceiling Mounted Sensors

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage</th>
<th>Mounting</th>
<th>Technology</th>
<th>Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
</table>
| LRM224000     | Occupancy Sensor, Ceiling Mount, Line Voltage, 120V | • Commercial offices  
• Storage areas  
• Copy space | 360° coverage of 530 sq. ft. on an 8’ ceiling | Up to 12’ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Optional daylight holdback  
• Automatic adjustment to occupancy patterns  
• Unobtrusive small shape |
| LRM224500     | Occupancy Sensor, Ceiling Mount, Line Voltage, 277V | • Commercial offices  
• Open areas  
• Utility rooms | 360° coverage of 1500 sq. ft. on an 8’ ceiling | Ceiling | Multi-tech | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Multi-tech sensing can reduce false ons and offs  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback  
• Unobtrusive small shape |
| LRM225000     | Occupancy Sensor, Ceiling Mount, Low Voltage | • Commercial offices  
• Open areas  
• Utility rooms  
• Break areas | 360° coverage of 500 sq. ft. on an 8’ ceiling | Up to 12’ | Multi-tech | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRM225500     | Occupancy Sensor, Ceiling Mount, Low Voltage | • Commercial offices  
• Open areas  
• Classrooms  
• Utility rooms  
• Break areas | 360° coverage of 2000 sq. ft. on an 8’ ceiling | Up to 12’ | Multi-tech | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRM226000     | Occupancy Sensor, Ceiling Mount, Low Voltage | • Commercial offices  
• Open areas  
• Utility rooms  
• Break areas | 360° coverage of 500 sq. ft. on an 8’ ceiling | Up to 12’ | Multi-tech | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRM226500     | Occupancy Sensor, Wall Mount, Low Voltage | • Classrooms  
• Conference rooms  
• Open offices  
• Storage rooms | 110° coverage of 1200 sq. ft. on an 8’ ceiling | Wall mount or ceiling | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRM227000     | Occupancy Sensor, Wall Mount, Low Voltage | • Work areas  
• Storage areas  
• Garages  
• Rooms with pendant fixtures | 110° coverage of 2500 sq. ft. on an 8’ ceiling | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRM227500     | Occupancy Sensor, Wall Mount, High Bay, Low Voltage | • High bay warehouse aisles and corridors  
• Factory storage areas  
• 7’ on a 30’ ceiling | 14’ x 100’ on a 10’ ceiling | Wall or ceiling | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers  
• Optanium programmed start fluorescent ballasts  
• Centium electronic ballasts | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRM228000     | Occupancy Sensor, Wall Mount, Long Range, Low Voltage | • Warehouse aisles and corridors  
• Factory storage areas | 110° coverage of 2500 sq. ft. on an 8’ ceiling | Wall or ceiling | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Xitanium LED drivers  
• Optanium programmed start fluorescent ballasts  
• Centium electronic ballasts | • On/off occupancy sensing  
• Automatic adjustment to occupancy patterns  
• Optional daylight holdback |
| LRL2390       | On/Off/Automatic Dimming Photocell Sensor | Offices, Classrooms | 360 | Ceiling | Passive Infrared, Photocell | Mark 7 0-10V Xitanium 0-10V | Self Contained load relay, 0-10V dimming, Lampminder |
| LRM2377       | Dual-Zone Occupancy Sensor | Classrooms, Restrooms | 360 | Ceiling | Passive Infrared | Non-Dimming | Self Contained load relays, Lampminder |
| LRM2375       | Occupancy Photocell Sensor | Offices, Classrooms | 360 | Ceiling | Passive Infrared, Photocell | Non-Dimming | Self Contained load relay, Daylight holdback, Lampminder |
| LRM2376       | Occupancy Daylighting Sensor | Offices, Classrooms | 360 | Ceiling | Passive Infrared, Photocell | Mark 7 0-10V Xitanium 0-10V | Self Contained load relay, 0-10V dimming, Lampminder |
| LRL2380       | On/Off/Photocell Sensor | Offices, Classrooms | 360 | Ceiling | Passive Infrared, Photocell | Non-Dimming | Self Contained load relay, Daylight holdback, Lampminder |
| LRL2385       | On/Off/Photocell Sensor, Dual Zone | Offices, Classrooms | 360 | Ceiling | Passive Infrared, Photocell | Non-Dimming | Self Contained load relays, Daylight holdback, Lampminder |
## Power Relay Packs

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Compatible Ballasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCA2285</td>
<td>Power Pack, 120/277 VAC</td>
<td>• Optanium programmed start electronic fluorescent ballasts</td>
</tr>
<tr>
<td>LCA2287</td>
<td>Power Pack with HVAC Relay, 120/277 VAC</td>
<td>• Xitanium LED drivers</td>
</tr>
<tr>
<td>LCA2290</td>
<td>Power Pack with HVAC Relay, 347 V</td>
<td></td>
</tr>
</tbody>
</table>

## Dimmer Power Extenders

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Compatible Ballasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCU2420</td>
<td>Power Extender, Incandescent and Magnetic Low Voltage Ballast</td>
<td>Incandescent and magnetic low voltage</td>
</tr>
<tr>
<td>LCU2425</td>
<td>Power Extender, Fluorescent Ballast, 120V</td>
<td>Philips Advance Mark 10 Powerline dimming ballast</td>
</tr>
<tr>
<td>LCU2430</td>
<td>Power Extender, Fluorescent Ballast, 277V</td>
<td>Philips Advance Mark 10 Powerline dimming ballast</td>
</tr>
<tr>
<td>LCU2435</td>
<td>Power Extender, 0–10V Electronic Ballast, 120V</td>
<td>Philips Advance Mark 7 0–10V electronic ballast</td>
</tr>
</tbody>
</table>

## Time Control Relay Panel

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Compatible Ballasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC2410</td>
<td>Panel with BACNET, 120/277 VAC</td>
<td>• Optanium programmed start fluorescent ballasts • Xitanium LED drivers</td>
</tr>
</tbody>
</table>
Indoor luminaire control solutions for typical office applications

**MicroLuxSense and LuxSense Daylight Compensation Sensors**

**Product description**
LuxSense and MicroLuxSense are daylight compensation sensors that can control up to 20 fixtures equipped with Philips Advance Mark 7 0-10V fluorescent ballasts or compatible e-Vision HID ballasts, as well as Xitanium drivers. The sensors measure the reflected light coming from the designated surface below, such as a desk or tabletop. It reduces the light output when the light level exceeds the required level defined by the sensor. The light level is easily adjusted via a simple dial.

**Features and benefits**
- Daylight compensation functionality can provide significant energy savings without sacrificing light levels
- Automated regulation of artificial lighting allows for task desired illumination to be maintained
- Regulating up to 20 luminaires at once allows you to utilize one sensor for continuous rows or multiple sensors with single luminaires
- LRL1222 CMP Ceiling Mounting Plate available for use with MicroLuxSense

**LuxSense LRL1220TLD Sensor, T8 Clip**
**LuxSense LRL1220TL5 Sensor, T5 Clip**

**MicroLuxSense and LuxSense Daylight Regulation Sensors**

<table>
<thead>
<tr>
<th>Product</th>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroLuxSense</td>
<td>LRL1222</td>
<td>Sensor</td>
<td>• Offices</td>
<td>• Mark 7 0-10V</td>
<td>• Each sensor controls up to 20 luminaires</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Conference Rooms</td>
<td>• Xitanium 0-10V</td>
<td>• No specific lighting control training needed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Classrooms</td>
<td></td>
<td>to set-up</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Break Areas</td>
<td></td>
<td>• Compensates for daylight depending on</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Small Open Office Areas</td>
<td></td>
<td>reflective light to the sensor</td>
</tr>
<tr>
<td>LuxSense</td>
<td>LRL1220TLD</td>
<td>Sensor, T8 Clip</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LuxSense</td>
<td>LRL1220TL5</td>
<td>Sensor, T5 Clip</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
ActiLume Lighting Control System Product Family

**Product description**

The ActiLume family of products is a simple-to-install and easy-to-use lighting control system designed to operate in private or open office settings. This family contains both a light sensor for daylight harvesting and a movement detector for occupancy sensing. Research shows that daylight and occupancy sensing functionality provides a potential energy savings of approximately 65% without sacrificing light levels.\(^1\) ActiLume products have the capability to automatically switch the lights on and off depending on occupancy patterns or dim the lamp depending on how much ambient light is present. With no complex commissioning required, the ActiLume family offers users task appropriate lighting and automatic energy savings.

**Features and benefits**

- Simple commissioning means no professional training required to commission or adjust light level
- Automated regulation of artificial lighting allows for task illumination to be maintained
- LRI1655CMP Ceiling Mounting Plate available for use with the 0-10V sensor

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**ActiLume Lighting Control System Family**

<table>
<thead>
<tr>
<th>Product</th>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage (Sq. Ft.)</th>
<th>Mounting</th>
<th>Pattern</th>
<th>Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ActiLume 1-10V Sensor</td>
<td>LRI1655</td>
<td>Sensor</td>
<td>• Classroom</td>
<td>325</td>
<td>10’</td>
<td>Rectangular, PIR</td>
<td>• Mark 7 0–10V</td>
<td>• Daylight harvesting and occupancy sensing in a single device</td>
</tr>
<tr>
<td>ActiLume 1-10V Switchbox</td>
<td>LLC1655</td>
<td>Switchbox</td>
<td>• Conference room</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• One-step commissioning can save on installation and maintenance</td>
</tr>
<tr>
<td>ActiLume Wireless 1-10V</td>
<td>LLC1681</td>
<td>Switchbox</td>
<td>• Classroom</td>
<td>325</td>
<td>10’</td>
<td>Rectangular, PIR</td>
<td>• Mark 7 0-10V</td>
<td>• Automated regulation of lighting level</td>
</tr>
<tr>
<td>ActiLume Wireless 1-10V</td>
<td>LRI1655</td>
<td>Sensor</td>
<td>• Conference room</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Daylight harvesting and occupancy sensing in a single device</td>
</tr>
<tr>
<td>ActiLume Wireless 1-10V</td>
<td>UID8410</td>
<td>RF Remote Control</td>
<td>• Enclosed office</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Easy grouping of luminaires with remote control</td>
</tr>
<tr>
<td>ActiLume DALI Sensor</td>
<td>LRI1653</td>
<td>Sensor</td>
<td>• Classroom</td>
<td>325</td>
<td>10’</td>
<td>Rectangular, PIR</td>
<td>• ROVR fluorescent</td>
<td>• Occupancy sharing for extra energy savings</td>
</tr>
<tr>
<td>ActiLume DALI Controller</td>
<td>LLC1654</td>
<td>Controller</td>
<td>• Conference room</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Two programmed application modes for open plan or office are selected via simple push button</td>
</tr>
</tbody>
</table>

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**Accessories**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Box Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCA8001</td>
<td>Ring for cover</td>
<td>100 pieces</td>
</tr>
<tr>
<td>LCA8002</td>
<td>T5 Clip</td>
<td>50 pieces</td>
</tr>
<tr>
<td>LCA8003</td>
<td>T8 Clip</td>
<td>50 pieces</td>
</tr>
<tr>
<td>LCA8005</td>
<td>Mounting Ring</td>
<td>50 pieces</td>
</tr>
</tbody>
</table>
Indoor luminaire control solutions for typical industrial applications

ActiLume Classic Lighting Controls

**Product description**

The ActiLume Classic Lighting Controls are the simple way for 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. Consisting of 16 different models for a variety of industrial high bay applications, ActiLume Classic contains a number of value added features including technology that can help to preserve lamp life, take advantage of daylight holdback, make set-up easier, and provide the flexible solutions that industrial facilities need in today’s high energy cost economy.

**Features and benefits**

- 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 luminaries 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
## ActiLume Classic Lighting Controls

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage</th>
<th>Mounting</th>
<th>Pattern</th>
<th>Technology</th>
<th>Philips Advance Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
</table>
| LRS223500     | Fixture-Mounted Occupancy Sensor, 3 Lenses | • High bay industrial  
• Low bay industrial  
• Low bay aisle way | • High Bay 30’ Radius @ 40’  
• Low Bay 30’ Radius @ 20’  
• Aisle 60’x10’ @ 40’ | 8’ to 40’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • 3 interchangeable lenses for 360˚ high bay, low bay, or low bay aisle  
• On/off occupancy sensing  
• Easy snap-in sensor installation into luminaire or junction box  
• Automatically adjusts PIR sensitivity depending on ambient temperature  
• Easy push-button time adjustment |
| LRS223700     | Fixture-Mounted Occupancy Sensor, 3 Lenses, 480VAC | • High bay industrial  
• Low bay industrial  
• Low bay aisle way | • High Bay 30’ Radius @ 40’  
• Low Bay 30’ Radius @ 20’  
• Aisle 60’x10’ @ 40’ | 8’ to 40’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated optical pattern  
• On/off occupancy sensing  
• Easy snap-in sensor installation  
• No field calibration required  
• Easy push-button time adjustment  
• Burn in timer helps preserve lamp life  
• Easy wiring with interchangeable hot and load wires |
| LRM2310       | Internal Fixture-Mounted High Bay 360˚ Sensor, 120/277VAC | • High bay warehouse  
• High bay Industrial | • 15’ Radius @ 30ft  
• 30’ Radius @ 45ft | 8’ to 20’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated optical pattern  
• On/off occupancy sensing  
• Easy snap-in sensor installation  
• No field calibration required  
• Easy push-button time adjustment  
• Burn in timer helps preserve lamp life  
• Easy wiring with interchangeable hot and load wires |
| LRM2315       | Internal Fixture-Mounted High Bay 360˚ Sensor, 347VAC | • Low bay warehouse  
• Low bay industrial | • 18’ Radius @ 9ft  
• 30’ Radius @ 45ft | 9’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2320       | Internal Fixture-Mounted Low Bay 360˚ Sensor, 120/277VAC | • Low bay warehouse  
• Low bay industrial | • 30’ Radius @ 30ft  
• 60’x10’ @ 40’ | 15’ to 45’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2325       | Internal Fixture-Mounted Low Bay 360˚ Sensor, 347VAC | • Low bay warehouse  
• Low bay industrial | • 30’ Radius @ 30ft  
• 60’x10’ @ 40’ | 15’ to 45’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2330       | Fixture-Mounted High Bay 360˚ Sensor, 120/277 VAC | • High bay warehouses  
• High bay manufacturing | • Low view 20’ Radius @ 15ft  
• High View 30’ Radius @ 45ft | 15’ to 45’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2335       | Fixture-Mounted High Bay 360˚ Sensor, 347 VAC | • High bay warehouses | • Low view 20’ Radius @ 15ft  
• High View 30’ Radius @ 45ft | 15’ to 45’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2340       | Fixture-Mounted High Bay 360˚ Sensor, 120/277 VAC, Photocell, Low Temp. | • High bay warehouses  
• High bay manufacturing | • Low view 20’ Radius @ 15ft  
• High View 30’ Radius @ 45ft | 15’ to 45’ | 360˚ | Passive infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2342       | Low Temp, High Bay, Dimming Occupancy Sensor | Cold Warehouse | High Bay 30’ Radius @ 45˚ | 15’ to 45’ | 360˚ | Passive Infrared | Mark 7 0-10V Xitanium 0-10V | Corrosion resistant circuitry, adjustable delay |
| LRM2345       | Fixture-Mounted High Bay 360˚ Sensor, 347 VAC, Photocell, Low Temp. | • High bay warehouses | • Low view 20’ Radius @ 15ft  
• High View 30’ Radius @ 45ft | 15’ to 45’ | 360˚ | Passive Infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
| LRM2348       | Fixture-Mounted High Bay 360˚ Sensor, 480 VAC | • High bay warehouses  
• High bay manufacturing | • Low view 20’ Radius @ 15ft  
• High View 30’ Radius @ 45ft | 15’ to 45’ | 360˚ | Passive Infrared | • Optanium programmed start fluorescent ballasts  
• Centium electronic fluorescent ballasts | • Dedicated open area optical pattern  
• On/off occupancy sensing  
• Easy install into luminaire or junction box  
• No field calibration required  
• Burn in timer helps preserve lamp life  
• Easy push-button time adjustment  
• Easy wiring with interchangeable hot and load wires |
### ActiLume Classic Lighting Controls (continued)

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Area</th>
<th>Coverage</th>
<th>Mounting</th>
<th>Pattern</th>
<th>Technology</th>
<th>Philips Advance Compatible Ballast</th>
<th>Key Features</th>
</tr>
</thead>
</table>
| LRM2350       | Fixture-Mounted High Bay Sensor, Aisle Focus, 120/277VAC | • High bay warehouse aisle and corridor  
• High bay manufacturing aisle and corridor | 14’ x 110’ | 30’ to 45’ | Bi-directional coverage 70’ to 110’ | Passive infrared | Optanium programmed start fluorescent ballasts  
Optanium programmed start fluorescent ballasts  
Centium electronic fluorescent ballasts | Dedicated aisle coverage optical pattern  
On/off occupancy sensing  
Easy install into luminaire or junction box  
Sensor turret rotates 90° to easily adjust to view pattern  
No field calibration required  
Easy push-button time adjustment  
Easy wiring with interchangeable hot and load wires |
| LRM2355       | Fixture-Mounted High Bay Sensor, Aisle Focus, 347VAC | | | | | | |
| LRM2360       | Fixture-Mounted High Bay Sensor, Aisle Focus, 120/277VAC, Photocell, Low Temperature | | | | | | |
| LRM2362       | Low Temp, High Bay, Aisle, Dimming Occupancy Sensor | Cold Warehouse | High Bay 100’ x 14’ @ 40’ | Up to 40’ | Aisle Passive Infrared | 0-10V Mark 7 | Corrosion resistant circuitry, adjustable delay |
| LRM2365       | Fixture-Mounted High Bay Sensor, Aisle Focus, 347VAC, Photocell, Low Temperature | • High bay warehouse aisle and corridor  
• High bay manufacturing aisle and corridor | 14’ x 110’ | 30’ to 45’ | Bi-directional coverage 70’ to 110’ | Passive infrared | Optanium programmed start fluorescent ballasts  
Centium electronic fluorescent ballasts | Dedicated aisle coverage optical pattern  
On/off occupancy sensing  
Easy install into luminaire or junction box  
Sensor turret rotates 90° to easily adjust to view pattern  
No field calibration required  
Easy push-button time adjustment  
Easy wiring with interchangeable hot and load wires |
| LRM2368       | Fixture-Mounted High Bay Sensor, Aisle Focus, 347VAC | | | | | | |
| LRM2369       | Optional Sensor Mounting Bracket | | | | | | | Optional mounting bracket allows sensor to be mounted up to 4.3” lower to avoid obstructions |
Outdoor luminaire control solutions

With energy and labor costs rising and communities becoming increasingly interested in decreasing light pollution and improving outdoor lighting, businesses and municipalities are finding it harder to keep costs down while at the same time addressing the wants and needs of their clients and constituents.

Philips outdoor control products are designed to help address these issues. From simple luminaire based timers to complex tele-management network systems, Philips outdoor lighting controls can be an integral component in reducing the total cost of ownership for outdoor lighting as well as a means of addressing sustainability concerns.

Please contact your local Philips sales representative to learn more about outdoor controls solutions and to find out how Philips can be your partner in outdoor controls.
Dynadimmer 0–10V Lighting Control System
Easy programmable outdoor dimming

Product description
The Philips Dynadimmer 0–10V lighting control system is a perfect complement to the latest in energy-efficient, outdoor eHID and LED lighting solutions. Driving energy-savings with minimum effort, Dynadimmer is a compact and independent luminaire-based device that works in conjunction with easy-to-use software and programming equipment. Empowering users to set dim times and levels when and as they wish, Dynadimmer offers true flexibility and is ideal for outdoor lighting of parking lots, residential streets and public areas.

Features and benefits
• Five user-programmable dimming levels and time periods allow users to reduce energy use when and as they wish
• Compact for easy installation within a luminaire or pole without need for external controls or signal wiring
• Easy-to-use software and programming equipment provides easy set-up and modification of dimming times and levels
• PC-based software that can provide an estimated forecast of system energy savings based on parameters set by the user

Dynadimmer Lighting Control System

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Areas</th>
<th>Compatible Ballasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLC7230</td>
<td>Dynadimmer 0–10V</td>
<td>• Residential</td>
<td>• 0–10V eHID ballasts and LED drivers</td>
</tr>
<tr>
<td>LCC7210</td>
<td>USB PC Cable</td>
<td>• Parking garage</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Roadway</td>
<td></td>
</tr>
</tbody>
</table>

Chronosense Lighting Control System
Achieve HID energy savings with Philips Chronosense

Product description
Chronosense is a bi-level lamp control device that enables energy savings with low installation efforts. The small, stand-alone, luminaire-based device can drive CWA or Super-CWA magnetic ballasts to facilitate on-demand light levels via bi-level dimming.

Easy to design around, install and program, the Chronosense dimming schedule is easily programmed via a PC using a standard USB cable. Future schedule changes are always possible, simply by reprogramming the original settings. Offering energy-efficiency and flexibility, Chronosense is ideal for residential, roadway, parking, and industrial applications.

Features and benefits
• Energy savings through dimming
• Reduced light nuisance
• Small and smart connectors for easy design-in and mounting
• Case temperature rating of 105°C
• Easy-to-use software that can provide an estimated forecast of system energy savings based on parameters set by the user
• Standard 18 AWG leads rated at 150°C

Chronosense Lighting Control System

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
<th>Ideal Application Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLC7130</td>
<td>Chronosense</td>
<td>• Residential areas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Roadways</td>
</tr>
<tr>
<td>LCC7210</td>
<td>USB PC Cable</td>
<td>• Parking lots</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Industrial areas</td>
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</table>
Outdoor telemanagement systems

Outdoor telemanagement systems represent the latest technology to address the rapidly changing outdoor lighting market. With new technology like LED and eHID changing the landscape of outdoor lighting, systems to manage and control the expanded features of these lights are critical to achieve the maximum performance.

New wireless telemanagement systems like Philips Amplight and Starsense allow great flexibility and control of the lighting network. Providing users with a robust software tool that can access information on the lighting networks, end users can see in real time the status of their lighting systems. System outages can be tracked immediately to individual lights. Day burning lights can be easily identified. Maintenance issues can be automatically diagnosed before a repair crew is dispatched.

Additionally, these systems provide wireless controls to access the increasingly complex functions available in modern lighting fixtures. Dimming, power monitoring, lifetime tracking, and more can be achieved.

Please contact your local Philips sales representative to learn more about outdoor controls solutions and to find out how Philips can be your partner in outdoor controls.
### AmpLight Zone Control Enterprise System:
**Intelligent centralized streetlight control**

**Product description**
AmpLight is a complete web-based server solution with advanced communication design that easily integrates into existing installations. It can help optimize maintenance schedules and increase the quality of outdoor light while decreasing energy consumption. The centralized solution is easy to implement and requires less equipment and fewer man hours than a pole-based control solution. AmpLight is a solution that combines lowered energy costs and reduced CO₂ emissions without compromising quality.

**Features and benefits**
- Burn hour reports for proactive bulb change and flexibility to adapt lighting levels may provide improved quality of light
- Control cabinet fault monitoring and asset management of lighting infrastructure can decrease maintenance costs
- Automated reading of digital power meters in control cabinets and dimming at off-peak traffic hours can reduce energy consumption and light pollution

#### AmpLight Zone Control Enterprise System

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFC7500</td>
<td>AmpLight CPU</td>
</tr>
<tr>
<td>LFC7510</td>
<td>AmpLight Current Module</td>
</tr>
<tr>
<td>LFC7520</td>
<td>AmpLight Switch</td>
</tr>
<tr>
<td>LFC7530</td>
<td>AmpLight Battery</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFC7540</td>
<td>AmpLight MBUS Module</td>
</tr>
<tr>
<td>LFC7550</td>
<td>AmpLight RS485 Client Interface Module</td>
</tr>
<tr>
<td>LFC7560</td>
<td>AmpLight Euridis Client Interface Module</td>
</tr>
</tbody>
</table>

### Starsense Lighting Control System:
**A cost-effective telemanagement outdoor lighting control system**

**Product description**
Starsense is a telemanagement system, with remote control of outdoor light points on highways, roads, streets and in residential areas. It is designed to save energy by enabling individual light points to be switched on or off at any given time or set to any dimming level. Makes outdoor lighting installations intelligent and dynamic.

**Features and benefits**
- Starsense controls and monitors any lamp type from electromagnetic ballasts to electronic drivers making it a flexible choice
- Starsense can accurately detect failures in the light points which can lower maintenance costs
- Starsense’s user-friendly software tool is easily accessible from the internet and shows relevant information such as failures, energy consumption, lifetime, etc. With real-time monitoring using web mapping services from the Internet, this system is able to provide immediate information and feedback

Please contact your local Philips sales representative to learn more about the Philips Starsense solutions.
Electronic fluorescent controllable ballasts

Philips gives you controllable lighting options that are affordable, easy, versatile and sustainable. By pairing controllable ballasts with occupancy sensors, daylight controls and building management systems, we can offer an outstanding opportunity for businesses to save on energy costs, provide task appropriate lighting and reduce a company’s environmental impact.

Please contact your local Philips sales representative to learn more how our dimming ballasts can be a key component in your sustainability efforts.
**Philips Advance Optanium Step-Dim Electronic Fluorescent Ballasts**

**Easy to install step-dim capability**

**Product description**
Philips Advance Optanium ballasts with step-dim capability for T5 and T8 fluorescent lamps represent an affordable, energy-efficient, and versatile lighting solution designed to meet energy codes such as California’s Title 24 and ASHRAE 90.1-2010 that require end users to reduce lighting power consumption by 50%.

Operating from any line voltage switching device, programmed-start circuitry such as what is found in this ballast potentially extends lamp life in frequent switching applications like those associated with the use of occupancy sensors making this product the sustainable choice for many commercial applications.

**Features and benefits**
- Dims all the connected lamps together providing equal burn hours on all lamps reducing uneven lifetimes as experienced with on-off switching
- IntelliVolt multiple-voltage technology enables operation from 120 to 277V, 50/60 Hz
- T5 Lamp end-of-life (EOL) protection circuit removes power to the lamps upon lamp failure

**Philips Advance ROVR DALI Controllable Ballasts**

**Intelligent lighting control**

**Product description**
These ballasts reflect the latest approach to controlling fluorescent lighting. Rather than simply responding to instructions from control components, ROVR ballasts enable two-way communication, allowing for practically unlimited design flexibility.

Using industry standard DALI (Digital Addressable Lighting Interface) communication protocol, ROVR ballasts can provide users with operational data while controlling the output of individual luminaires. This fully supports sustainable design principles such as daylight harvesting and occupancy sensors while enabling a proactive response to maintenance concerns.

**Features and benefits**
- Available in linear fluorescent, and 4-pin CFL which makes it the ideal solution for a variety applications
- Continuous dimming range from 100% of light output down to 3% for T8 and CFL and 1% for T5/HO provides energy savings and task appropriate light
- Programmed-start circuitry such as what is found in this ballast potentially extends lamp life in frequent switching applications
Philips Advance Mark 10 *Powerline* Dimmable Ballasts
As easy as 1, 2, 3…

**Product description**
For companies looking to make their fixed-output linear fluorescent systems more cost-effective and sustainable, Mark 10 *Powerline* electronic ballasts provide an easy solution without the need for additional control leads. Simply replace the ballast, replace the switch, dim the lights, that is all it takes. It’s that easy to bring the convenience and flexibility of fluorescent dimming to your facility.

Mark 10 *Powerline* electronic dimming ballasts are optimally-suited to a broad range of commercial, institutional, and retail/hospitality applications.

**Features and benefits**
- Available in linear T8, 4-pin CFL, and T5/HO models which makes it the ideal solution for a variety of locations
- Continuous dimming range from 100% of light output down to 3% for linear T8 and CFL and 1% for T5/HO can mean additional energy savings when combined with a daylight harvesting control system or dimmer switch
- Programmed-start circuitry such as what is found in this ballast potentially extends lamp life in frequent switching applications

Philips Advance Mark 7 0–10V Dimming Ballasts
Maximum dimming versatility

**Product description:**
This series of dimmable electronic ballasts offer maximum versatility by incorporating separate control leads for use with a wide variety of controllers including occupancy sensors, daylight harvesting controls, and building management systems.

When paired with linear fluorescent and 4-pin CFLs, Mark 7 0–10V ballasts optimize the benefits of popular sustainable lighting techniques to satisfy the need for affordable, flexible, and versatile controllable lighting solutions.

The Mark 7 0–10V family of products are ideal for such applications as conference rooms, auditoriums, educational facilities, hotels, restaurants, and department stores as well as other new construction or retrofit installations.

**Features and benefits**
- Available in linear T8, T5, T5 HO and 4-pin CFL which makes it the ideal solution for a variety applications
- Continuous dimming range from 100% of light output down to 5% for linear T8 and CFL and 1% for T5/HO can mean energy savings when combined with a daylight harvesting control system or dimmer switch
- Programmed-start circuitry such as what is found in this ballast potentially extends lamp life in frequent switching applications
LED drivers

Philips LED Drivers are specialized power supplies serving as both brain and muscle for solid-state lighting systems. As a R&D leader in LED driver technology, Philips offers innovative products that are integral elements of high-quality, energy-efficient, solid-state lighting solutions.

Please contact your local Philips sales representative to learn more how our LED drivers can be a key component in helping you save energy.
Xitanium LED Drivers

Product description
Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. The Philips Xitanium LED driver portfolio offers a range of products specially designed to operate LED solutions for a variety of lighting applications such as office, retail, industrial and outdoor and meet wide variety of customer needs, but they can all provide certain common benefits.

Features and benefits
• Reliable and consistent operation
• High efficiency drivers - >90% in some cases
• Greater than 0.9 PF and Less than 20% THD
• Greater that 50k Hrs lifetime
• 5 year limited warranty
• ROHS compliance
• Safety approbations (UL, CSA, CE, ENEC, PSE, SELV or CQC)

Xitanium LED Driver Categories

Based on the features that each driver has to offer the Philips Xitanium LED drivers can be classified into three main categories:

Fixed LED Drivers
These are designed to meet the basic needs of LED lighting. Available in either dedicated input voltage or intellivolt options, these drivers can address wide variety of output current and power requirements.

Dimmable LED Drivers
There are specific dimmable versions enabling use of lighting controls to increase energy saving through a wide variety of protocols, such as 0-10V and Trailing Edge (Step Dim & Leading Edge coming soon).

Programmable LED Drivers
Optimized to meet the ever evolving needs of today’s LED lighting customers, Xitanium Programmable LED Drivers are a one-stop solution for the varying power needs of industrial high bay, office, or retail lighting. Offering an unparalleled level of flexibility, these drivers provide a large number of features which can be customized based on the desired functionality of the luminaire design with simple programming interface.

1. Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBBDE)] in electrical and electronic products
2. See www.philips.com/ledmodulesna and click on the appropriate product for complete warranty details