



IntelliPower

Enabling the transition from static conventional lighting to dynamic LED lighting using existing electrical infrastructures

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IntelliPower lets you deploy intelligent, digitally controllable LED lighting solutions in any situation where re-wiring is not desirable or feasible, including historic buildings, in-ground systems, bridges, and monumental exteriors. By leveraging existing electrical and physical infrastructures, IntelliPower lets you affordably install dynamic, digitally controllable LED lighting where it was never possible before.

- Groundbreaking technology — IntelliPower employs an innovative implementation of proven power line carrier technology to send high-bandwidth control data to fixtures over standard 2 + ground wiring.
- High-bandwidth data communication — Unlike low- and mid-bandwidth PLC systems, IntelliPower delivers high-speed, high-bandwidth data communications from any DMX or Ethernet lighting controller, supporting the full range of color-changing lighting effects and dynamic light shows — not just simple switching and digital dimming.
- Leverages existing electrical infrastructures — The Data Enabler IntelliPower distributes digital control data from any DMX or Ethernet controller over existing electrical branches using standard 2 + ground wiring. The Data Receiver IntelliPower translates power and control streams into 3 + ground wiring for delivery to intelligent Powercore LED lighting fixtures from Philips Color Kinetics.
- Flexible configurations — You can install IntelliPower devices in virtually any configuration to support the full range of lighting design needs. You can use multiple Data Receiver IntelliPower devices on a branch to connect individual LED lighting fixtures in situations where you cannot lay new cable. You can configure your system to control fixtures on multiple branches from a single control source.
- Special support for canopy-base and landscape-mount fixtures — Mount canopy-base fixtures from Philips Color Kinetics, including Burst Powercore and Blast Powercore Architectural, directly to the Data Receiver IntelliPower for situations in which you cannot use 3 + ground wiring. The Data Receiver IntelliPower offers a threaded opening for fixtures with mounting posts, such as Burst Powercore Landscape.
- Outdoor rated — IntelliPower devices are fully sealed and IP66-rated for outdoor applications.
- Universal power input range — IntelliPower devices accept a universal power input range of 100 – 277 VAC for consistent installation and usage anywhere in the world.
- For site readiness evaluation, troubleshooting, and commissioning, please contact a your local **Philips Color Kinetics Representative** or **Philips Lighting System Service Center**.

Minimizing labor, materials, and installation costs

IntelliPower enables the integration of intelligent Powercore LED lighting fixtures into existing electrical infrastructures. Together, IntelliPower and Powercore dramatically simplify installation and lower labor and materials costs for installation and commissioning.



What Is IntelliPower?

IntelliPower lets you deploy intelligent, digitally controllable LED lighting solutions where they were never possible before, both indoors and outdoors. For retrofits, IntelliPower lets you use the electrical infrastructures already installed in historic buildings, in-ground lighting systems, bridges, and other existing structures, letting you realize all the benefits of a state-of-the-art LED lighting system without having to undertake expensive rewiring, renovation, or excavation work. IntelliPower also lets you deploy intelligent LED lighting solutions on existing building exteriors, bridges, and any other situation where access to data and mains power sources is difficult, or where the power and data sources must be located at a distance from lighting fixtures.

IntelliPower is a groundbreaking implementation of proven power line carrier (PLC) technology, a system for carrying data on the same conductors used for transmitting electrical power. PLC technology has been used successfully for years in applications such as home automation, home networking, and remote monitoring and control of meters and other electrical equipment for utilities.

IntelliPower applies the principles of PLC technology to intelligent LED lighting systems. With IntelliPower, you can install and digitally control intelligent Powercore fixtures from Philips Color Kinetics using existing electrical branches, 2 + ground wiring, and lighting fixture mounting points, making dynamic LED lighting retrofits possible where rewiring is prohibited, problematic, or too expensive. IntelliPower can also reduce installation expenses for labor, materials, time, and rental equipment, lowering overall initial costs and bringing LED lighting retrofits within budget.

Unlike the low- and mid-bandwidth PLC systems used in many home and utility-side applications, IntelliPower enables high-bandwidth DMX and Ethernet data communications over conventional 2 + ground wiring. High-bandwidth IntelliPower communications support the full range of color-changing lighting effects, dynamic light shows, and video — not just simple switching and digital dimming.



Photography: Chung Lee, Chung Lee Photography Ltd.

Edinburgh Castle Edinburgh, Scotland

Philips Color Kinetics Powercore fixtures are arranged around the undulating contours of the castle overlooking Edinburgh to illuminate the facade with warm colors. During special events, the castle is transformed with a parade of lively colors to reflect the mood of the celebration. IntelliPower delivers advanced control of the color-changing lighting fixtures without requiring any rewiring of the historic building.

IntelliPower and Powercore

IntelliPower allows you to realize all the benefits of intelligent Powercore LED lighting systems where it was never possible before. IntelliPower and patented Powercore technology work together to help you achieve unprecedented results.

Powercore, an advanced power management system patented by Philips Color Kinetics, delivers power input directly to fixtures from line voltage over standard 3 + ground wiring.

Powercore simplifies installation and lowers system costs by eliminating external power supplies, separate data cabling, and special installation methods. Powercore also lowers the cost of installation and maintenance by reducing a system's total parts count, minimizing the size and weight of the power management components required to run a lighting system, and extending fixture and cable runs.

By allowing you to install intelligent Powercore fixtures using existing 2 + ground wiring and mounting points, IntelliPower lowers installation and total system costs even more. Depending on the details and requirements of the installation, you can use IntelliPower to replace existing conventional lights with dynamic LED lighting fixtures, extend an existing lighting system with runs of intelligent Powercore fixtures, or integrate intelligent lighting with building automation systems. You can use these approaches in any combination in a single installation.



Photography: Robert Sansone

Powercore and IntelliPower working together

On the north side of Boston, Massachusetts, the Leonard P. Zakim Bunker Hill Bridge is one of the widest cable-stayed bridges in the world. In 2013, the Massachusetts Department of Transportation (MassDOT) installed an IntelliPower solution to replace the existing metal halide fixtures with intelligent Powercore floodlights from Philips Color Kinetics. Now MassDOT can digitally control the lights to instantly change colors and display color-changing light shows while reducing energy consumption by more than 80% over the previously installed conventional lighting system. IntelliPower also allowed MassDOT to re-use the existing electrical wiring and fixture mounting points on the bridge, dramatically lowering installation costs.

When to Use IntelliPower

Like any advanced solution, IntelliPower is appropriate in many, but not all, circumstances. In some cases, a standard Powercore or low-voltage solution may be more cost-effective than an IntelliPower solution. For any given lighting project, you must evaluate a number of factors, including the state of existing electrical and physical infrastructures, the cost and complexity of installing new wiring, restrictions due to local electrical or historic preservation codes, or similar considerations. Where initial cost is the determining factor, TCO and ROI comparisons between IntelliPower solutions and alternatives are crucial. To determine whether IntelliPower is the right solution for your lighting project, contact your local Philips Color Kinetics representative or a Philips Lighting System Service Center.



Consider using IntelliPower for flexible, cost-effective solutions in the following situations:

- IntelliPower offers the ability to replace static conventional lighting with dynamic LED lighting in buildings and structures where replacing existing 2 + ground wiring is prohibited or too costly — for example, in historic buildings or in-ground exterior lighting systems. Using IntelliPower devices, you can install intelligent LED lighting fixtures with fixtures from Philips Color Kinetics in place of existing conventional lighting fixtures without running any new 3 + ground wiring or additional 2 + ground wiring.
- Even where conduit is already installed, pulling new 3 + ground wiring can be cost-prohibitive. In such cases, or in any situation where installation costs for new LED lighting systems are too high, an IntelliPower solution may be able to reduce overall installation costs to bring a project within budget.
- IntelliPower can lower the cost of enhancing and extending installed lighting systems in existing buildings. For example, IntelliPower may allow you to use a building's existing electrical infrastructure (2 + ground) to deliver combined power and data to an installation of new intelligent LED lighting fixtures (3 + ground) on the building's façade.

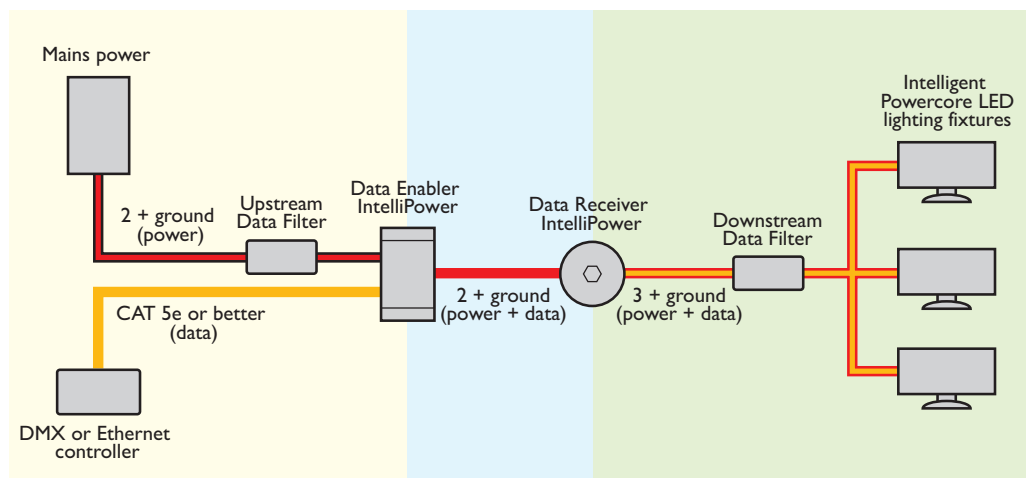


Photography: www.peterwongphotography.com

- IntelliPower can be a powerful new tool in your lighting toolbox to make a variety of projects possible. An IntelliPower solution allows you to integrate intelligent LED lighting systems with conventional lighting systems, building automation systems, occupancy sensors, or daylight harvesting systems.

The Components of an IntelliPower System

In a typical IntelliPower system, there are three types of IntelliPower devices — the Data Enabler IntelliPower, the Data Receiver IntelliPower, and the Data Filter IntelliPower. These devices coexist in any existing electrical branch, along with a DMX or Ethernet lighting controller in the system, and intelligent Powercore LED lighting fixtures from Philips Color Kinetics. LED lighting fixtures can be installed in virtually any configuration, up to the limits imposed by the electrical circuit and data signal integrity. Optionally, there may be data filters in the electrical stream to ensure clear data control to the fixtures.



Data Enabler IntelliPower



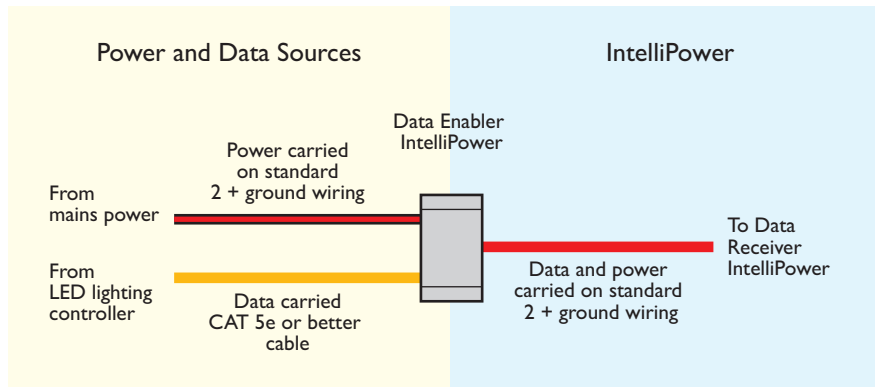
Data Receiver IntelliPower



Data Filter IntelliPower

Data Enabler IntelliPower

The Data Enabler IntelliPower accepts standard 2 + ground mains power from an electrical panel and control data from a DMX or Ethernet lighting controller, merges the power and data streams, and outputs the combined power / data stream over standard 2 + ground wiring.



Data Enabler IntelliPower combines power and data and outputs them to Data Receiver IntelliPower over standard 2 + ground wiring.

DMX and Ethernet Lighting Controllers

You can use any DMX or Ethernet controller from Philips Color Kinetics with IntelliPower systems, as well as third-party DMX controllers and third-party Ethernet controllers that support KiNET, the Ethernet lighting protocol from Philips Color Kinetics. You connect controllers to the Data Enabler IntelliPower using standard CAT 5e or better cables.

Data Receiver IntelliPower

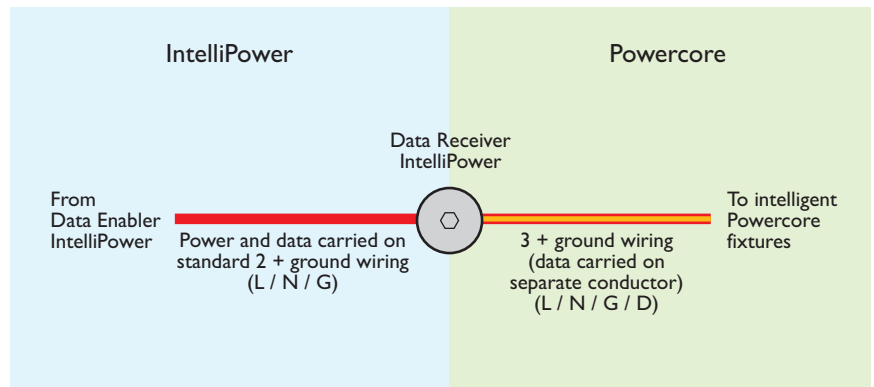
The Data Receiver IntelliPower accepts the combined 2 + ground power / data stream from a Data Enabler IntelliPower and translates it into a 3 + ground scheme (line, neutral, ground, and data) in order to output it to intelligent Powercore LED lighting fixtures from Philips Color Kinetics.



**iPlayer 3
DMX Controller**



**Light System Manager
Ethernet Controller**



Data Receiver IntelliPower receives the combined power / data stream from Data Enabler IntelliPower and delivers it to intelligent Powercore fixtures.

Data Filter IntelliPower

The Upstream and Downstream Data Filter IntelliPower are specially designed to eliminate noise and interference from the input stream, preserving the integrity of the PLC data at the Data Receiver from electrical disruption (from both directions) before it continues to the lighting fixtures.

- Upstream for positioning between the electrical power source and Data Enabler IntelliPower devices.
- Downstream for positioning between the Data Receiver IntelliPower devices and the first fixture on the branch.

Data filters are optional and may or may not be necessary in your installation; the need for them will be determined by a site assessment and analysis.

Intelligent Powercore LED Lighting Fixtures

IntelliPower works with all intelligent Powercore LED lighting fixtures from Philips Color Kinetics:

- IntelliColor fixtures combine three or more channels of colored LED sources to natively produce millions of colors of light.
- IntelliWhite fixtures combine two or more channels of white-light LED sources to produce a range of color temperatures.
- IntelliHue fixtures combine multiple channels of colored and white-light LED sources to produce color-changing effects and high-quality white light from the same fixture.

Intelligent Powercore LED lighting fixtures install in a number of different ways, depending on what type of connections they have — for example, detachable pre-configured leader cables, or integrated 4-conductor power / data cables with flying leads. Selected fixtures can be top-mounted directly to Data Receiver IntelliPower devices in situations where you want to reuse existing fixture mounting points and avoid running 3 + ground wiring entirely.



Floodlighting



Wall Washing



Spotlighting



Direct View Lighting



Wall Grazing



Cove Lighting

Examples of Intelligent Powercore LED lighting fixtures from Philips Color Kinetics that support a wide range of lighting applications

Site Readiness Assessment

When retrofitting existing buildings and structures, the condition and suitability of the installation site is a critical factor in determining the feasibility of an IntelliPower solution. The site readiness assessment team will work with you to identify any potential barriers to successful installation and commissioning. Any potential IntelliPower site must undergo an evaluation to determine if it is suitable for the use of IntelliPower technology. As with any professional lighting project, assessing and planning an IntelliPower solution requires the lighting designer or specifier to collaborate with professionals in related areas of responsibility. Depending on the complexity of the solution and the level of integration with other systems, the site readiness assessment team may include architects, structural engineers, electricians or electrical contractors, system integrators, building or plant managers, programmers, light show designers, and others.

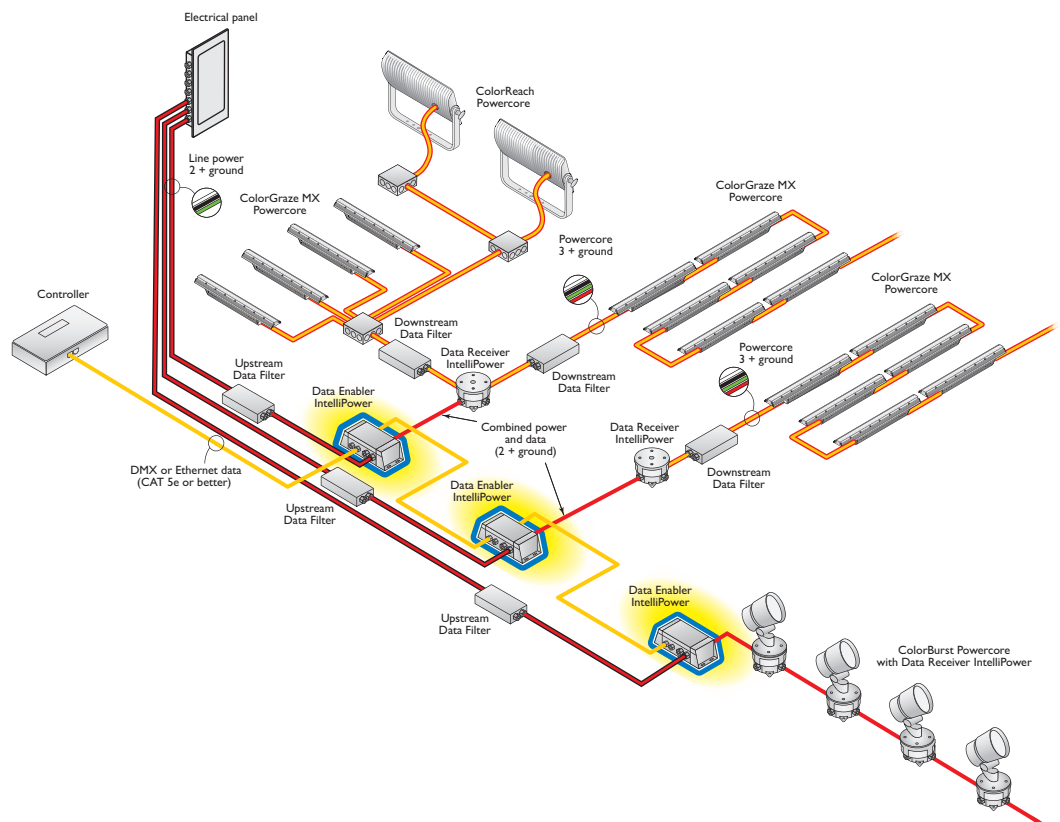
The assessment is usually split into a pre-assessment and a site visit. The pre-assessment consists of observations of the existing infrastructure and is performed

by the job specifier, client, and electrician familiar with the existing electrical infrastructure. The site visit is performed by a technical expert, who runs tests to measure data transmission quality. The technical expert can also perform the pre-assessment.

The purpose of the pre-assessment is to gather information about the state of the existing wiring, including panel locations, breakers to be used (including corresponding lights), and conduit length (from the IntelliPower Data Enabler to the furthest fixture location). The information gathered during the pre-assessment, including information about the proposed controller and fixture types, will be used to determine if the site passes preliminary requirements. If the site passes the requirements, this information will then be used to design a test to measure data transmission quality. If the site is partially or fully disqualified from using IntelliPower, this information can be used to design alternative proposals.

During the site visit, a technical expert and electrician will set up an IntelliPower network for testing. The test requires the electrician who performed the pre-assessment to be present to splice test equipment into existing wiring on all circuits that will be used. The Data Enablers used in the test should be spliced into the circuit close to where they will be installed (often near the electrical panel). Receivers should be placed at the light location furthest from the panel. After the hardware is set up, the technical expert uses software to measure data transmission quality between IntelliPower devices.

Following the site visit, the data transmission quality data will be analyzed, and decisions will be made regarding the site's suitability for IntelliPower.



Data Enabler IntelliPower Considerations

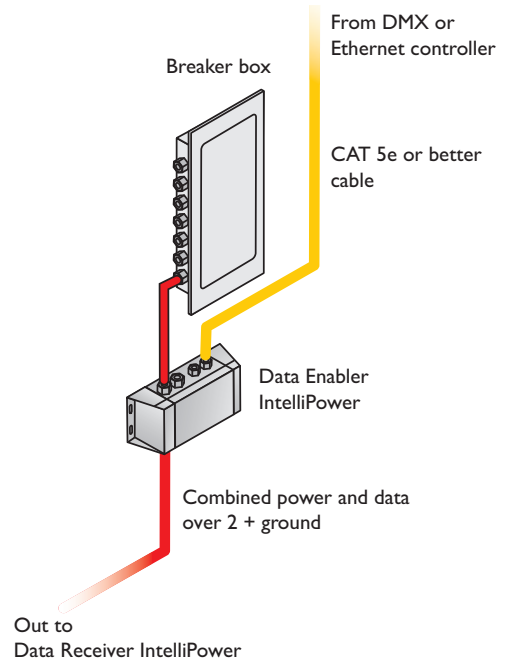
Data Enabler IntelliPower devices receive mains power over standard 2 + ground cable, and DMX or Ethernet control data over standard CAT 5e or better cable. Except in special circumstances, you install one Data Enabler IntelliPower device per electrical branch.

Data Enabler IntelliPower outputs combined power and control data over standard 2 + ground cable. In typical installations, one or more Data Receiver IntelliPower devices are installed on the same electrical branch. Data Enabler IntelliPower devices also offer DMX and Ethernet data outputs, which allow you to connect multiple Data Enabler IntelliPower devices to a single control source using standard CAT 5e or better cable.

Because most intelligent LED lighting fixtures from Philips Color Kinetics accept DMX control data, Data Enabler IntelliPower automatically translates Ethernet data and outputs it in the appropriate data format.

The distance from the electrical panel to the Data Enabler IntelliPower device on a branch has no effect on the performance of the system. However, we recommend that Data Enabler IntelliPower devices are installed near the electrical or breaker panel to create an easy access point and to keep the installation clean. We also recommend that you your DMX or Ethernet controller, Ethernet switches, and any required equipment are installed in the same accessible location to simplify programming, system maintenance and modifications, and troubleshooting.

Data Enabler IntelliPower devices can be mounted directly to any flat surface or substrate. Data Enabler IntelliPower devices must be installed in a location that allows air to move freely around the device. Startup and operating temperatures are rated to 122° F (50° C). Exceeding this temperature limit may cause device damage or failure.



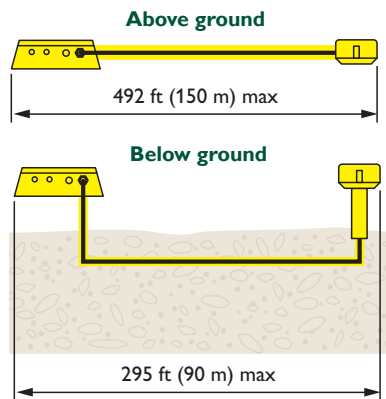
Data Receiver IntelliPower Considerations

Data Receiver IntelliPower devices receive combined power and data from Data Enabler IntelliPower over standard 2 + ground cable, and outputs power and data to intelligent Powercore fixtures over standard 3 + ground cable. You can install as many as 63 Data Receiver IntelliPower devices per electrical branch, up to the limits imposed by data integrity and the capacity of the electrical circuit.

To ensure data integrity, maximum 2 + ground run lengths from a Data Enabler IntelliPower device to the last Data Receiver IntelliPower device on a branch is 150 m (about 492 ft) above ground, and 90 m (about 295 ft) in-ground. Bear in mind that maximum in-ground run lengths can vary depending on the depth and condition of the cable, and other considerations.*

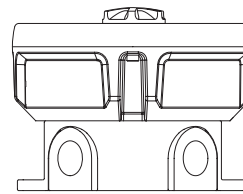
Data Receiver IntelliPower devices install to junction boxes. In North America, you can use standard 4 in round US electrical junction box per fixture, rated for your application, with 3.5 in center-to-center screw holes. Outside of North America, you can install Data Receiver IntelliPower devices to the outdoor-rated Wiring Compartment from Philips Color Kinetics (included with CE versions of Data Receiver IntelliPower).

Because it has a slightly larger capacity than a standard 4 in round junction box, you can also use the Wiring Compartment in North America for increased wiring volume. In some circumstances, the Wiring Compartment may allow you to make additional connections to each Data Receiver IntelliPower device.



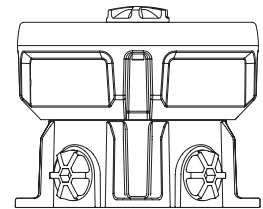
Maximum 2 + ground run lengths to last Data Receiver IntelliPower device in series

Total wiring volume: approx. 23 cu in
(varies depending on junction box used)



Example standard US 4 in round junction box

Total wiring volume: 27 cu in



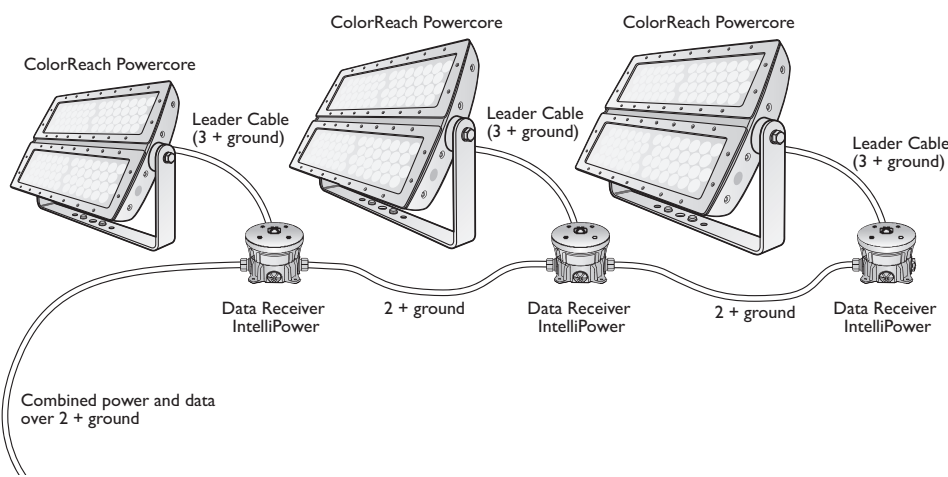
Philips Color Kinetics Wiring Compartment

Data Receiver IntelliPower and intelligent Powercore fixtures can be installed in a variety of configurations to support virtually any lighting design plan or system requirement. In general, there are three main approaches to installing Data Receiver IntelliPower devices and attaching intelligent Powercore fixtures to them.

- You can install one Data Receiver IntelliPower device per intelligent Powercore fixture. This layout is appropriate for situations in which you want to install non-linear LED lighting fixtures to existing mounting points while minimizing the need for new 3 + ground wiring.

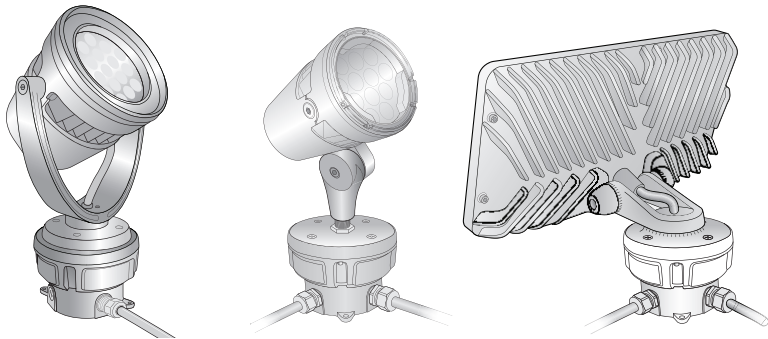
**Note: Measurements are guidelines for system planning and must be verified with a site assessment.*

- Certain intelligent Powercore fixtures with canopy bases or threaded mounting posts can be top-mounted directly to Data Receiver IntelliPower devices. This approach allows you to eliminate the need to run new 3 + ground wiring altogether, since all connections are made inside the Data Receiver IntelliPower



wiring compartment. The table to the left lists the intelligent LED lighting fixtures that can be top-mounted to Data Receiver IntelliPower devices.

- You can install a run of intelligent Powercore fixture from a Data Receiver IntelliPower. This layout is appropriate for situations in which you want to install linear LED lighting fixtures that interconnect by means of end-to-end connectors



or jumper cables, or where you prefer to run new 3 + ground wiring — for instance, if you’re installing intelligent LED lighting fixtures in a area of a building that was previously unlit.

You can use these approaches in any combination to satisfy your specific lighting and system plan requirements. For instance, you can top-mount ColorBurst Powercore Architectural fixtures to a run of 15 Data Receiver IntelliPower devices installed in series, and use every fifth Data Receiver IntelliPower device as the starting point for runs of ColorGraze Powercore or ColorReach Powercore fixtures.

Example of Top-Mount Fixtures

Canopy Base
ColorBurst Powercore Architectural
ColorBurst Compact Powercore Architectural
iW Burst Powercore Architectural
iW Burst Compact Powercore Architectural
ColorBlast Powercore
iW Blast Powercore
Threaded Post
ColorBurst Powercore Landscape
ColorBurst Compact Powercore Landscape
iW Burst Powercore Landscape
iW Burst Compact Powercore Landscape

Data Enabler IntelliPower Specifications

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



Item	Specification	Details
Electrical	Input Voltage	100 – 277 VAC*, auto-ranging, 50 / 60 Hz
	Maximum Input Current	150 mA maximum
	Power Consumption	15 W maximum
	Load Current	16 A maximum
Connections	Power Input	3-wire PC terminal block connector†
	Power / Data Output	3-wire PC terminal block connector (for 3-wire IntelliPower output)†
	DMX Input / Output	Double-pair, double-entry IDC connectors‡
	Ethernet Input / Output	Double-pair, double-entry IDC connectors‡
Physical	Dimensions (Height x Length x Width)	87 x 267 x 138 mm (3.4 x 10.5 x 5.4 in)
	Weight	2.4 kg (5.4 lb)
	Construction	NEMA 4X-rated cast aluminum enclosure with slots for surface mounting
	Finish	Powder-coated industrial gray matte
	Threaded Openings	.75 in NPT for power / .5 in NPT for data (US trade) M25 for power / M20 for data (metric)
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -20° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Cooling	Convection
	Heat Dissipation	15 W
	Data Input Source	Philips full range of controllers, third-party DMX controllers, or KiNET-compatible§ third-party Ethernet controllers
Certification and Safety	Certification	UL / cUL, FCC Class A, CE
	Environment	Dry / Damp / Wet Location, IP66

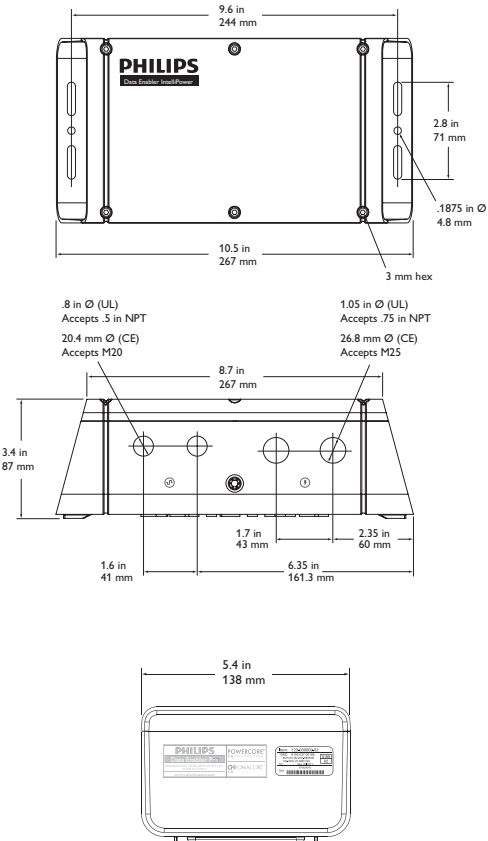
* Verify that the line voltage is appropriate for the lighting fixtures in your installation. See a specific fixture’s documentation for supported line voltages.

† PC terminal block connectors accept recommended wire sizes from 8.37 – 0.823 mm² (8 – 18 AWG).

‡ IDC connectors accept wire sizes from 0.326 – 0.129 mm² (22 – 26 AWG).

§ KiNET is the Ethernet lighting protocol from Philips Color Kinetics.





Further Information and Ordering:

For all inquiries about IntelliPower equipment and services, please contact your local Philips Lighting representative or a Philips Lighting System Service Center.

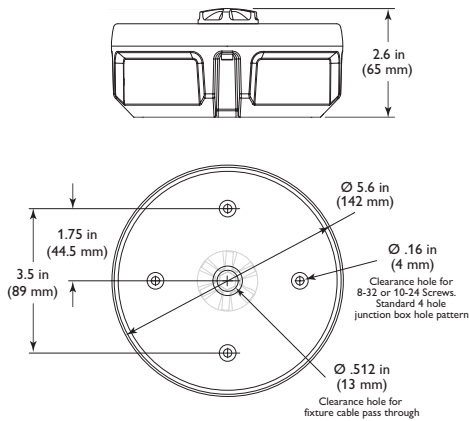
Item	Type
Data Enabler IntelliPower	.75 in / .5 in NPT (US trade size conduit)
	M25 / M20 (metric size conduit)

Included in the box

Data Enabler IntelliPower
8 mm hex wrench
3 mm hex wrench
Flat blade screwdriver
EMI suppression core
Installation Instructions

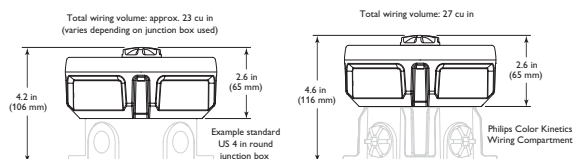
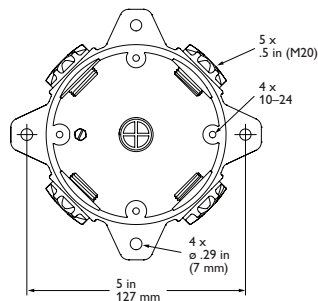
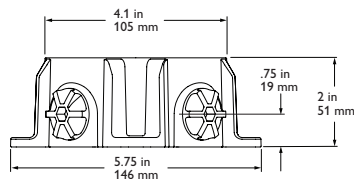
Data Receiver IntelliPower Specifications

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



Included in the box

Data Receiver IntelliPower
(2) #8-32 x 3.5 in screws for indoor installations with a canopy-base fixture attached
(2) #8-32 x 3.0 in screws for indoor installations with no canopy-base fixture attached
(4) #10-24 x 3.5 in screws for outdoor installations with a canopy-base fixture attached
(4) #10-24 x 3.0 in screws for outdoor installations with no canopy-base fixture attached
(4) 5-position lever-style connectors
Strain relief clip
(2) Gaskets
Blast Powercore canopy plug
Wiring Compartment (CE only)
Installation Instructions



Item	Specification	Details
Electrical	Input Voltage	100 – 277 VAC*, auto-ranging, 50 / 60 Hz
	Maximum Input Current	45 mA maximum
	Power Consumption	5 W maximum
Physical	Dimensions (Height x Length x Width)	65 x 142 x 142 mm (2.6 x 5.6 x 5.6 in)
	Weight	0.9 kg (2.0 lb)
	Construction	Cast aluminum enclosure
	Finish	Powder-coated black, white, or silver gray matte
	Threaded Opening	.5 in NPT
	Included Wiring Volume	114.7 cm ³ (7 cu in)
	Temperature Ranges	-40° – 50° C (-40° – 122° F) Operating -20° – 50° C (-20° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage
	Fixture Connections	152 mm (6 in) flying leads
	Humidity	0 – 95%, non-condensing
	Cooling	Convection
Certification and Safety	Certification	UL / cUL, FCC Class A, CE
	Environment	Dry / Damp / Wet Location, IP66

* Verify that the line voltage is appropriate for the lighting fixtures in your installation. See a specific fixture's documentation for supported line voltages.



Wiring Compartment Specifications

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

Item	Specification	Details
Physical	Dimensions (Height x Length x Width)	51 x 146 x 146 mm (2.0 x 5.75 x 5.75 in)
	Weight	0.41 kg (0.9 lbs)
	Construction	Cast aluminum enclosure
	Finish	Powder-coated black, white, or silver gray matte
	Threaded Opening	.5 in NPT (UL / cUL) / M20 (CE)
Certification and Safety	Included Wiring Volume	327.7 cm ³ (20 cu in)
	Certification	UL / cUL, CE
	Environment	Dry / Damp / Wet Location



Further Information and Ordering:

For all inquiries about IntelliPower equipment and services, please contact your local Philips Lighting representative or a Philips Lighting System Service Center.

Item	Housing Color
Data Receiver IntelliPower (UL / cUL)	Black
	White
	Silver Gray
Data Receiver IntelliPower (CE with Wiring Compartment)	Black
	White
	Silver Gray
Wiring Compartment (UL / cUL)	Black
	White
	Silver Gray
Wiring Compartment (CE)	Black
	White
	Silver Gray

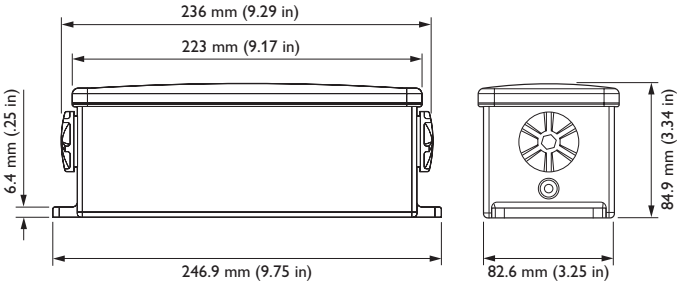
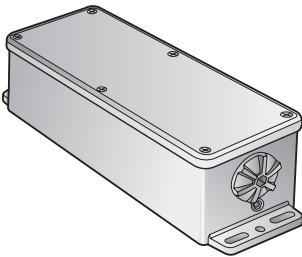
Data Filter Intellipower (Upstream) Specifications

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

Item	Specification	Details
Electrical	Input Voltage	100 – 277 VAC*, auto-ranging, 50 / 60 Hz
	Load Current	16 A maximum
Connections	Power Input	2-wire PC terminal block connector†
	Power Output	2-wire PC terminal block connector†
Physical	Dimensions (Height x Length x Width)	85 x 247 x 83 mm (3.3 x 9.7 x 3.2 in)
	Weight	1.5 kg (3.2 lb)
	Construction	NEMA 4X-rated cast aluminum enclosure with slots for surface mounting
	Finish	Powder-coated industrial gray matte
	Threaded Openings	.75 in NPT (UL / cUL) M25 (CE)
	Temperature Ranges	-40° – 50° C (-40° – 122° F) Operating -20° – 50° C (-20° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage
	Humidity	0 – 95%, non-condensing
	Cooling	Convection
	Heat Dissipation	9 W
Certification and Safety	Certification	UL / cUL, CE
	Environment	Dry / Damp / Wet Location, IP66

* Verify that the line voltage is appropriate for the lighting fixtures in your installation. See a specific fixture's documentation for supported line voltages.

† PC terminal block connectors accept recommended wire sizes from 8.37 – 0.823 mm² (8 – 18 AWG).



Further Information and Ordering:

For all inquiries about Intellipower equipment and services, please contact your local Philips Lighting representative or a Philips Lighting System Service Center.

Item	Type
Data Filter IntelliPower	Upstream
	Downstream

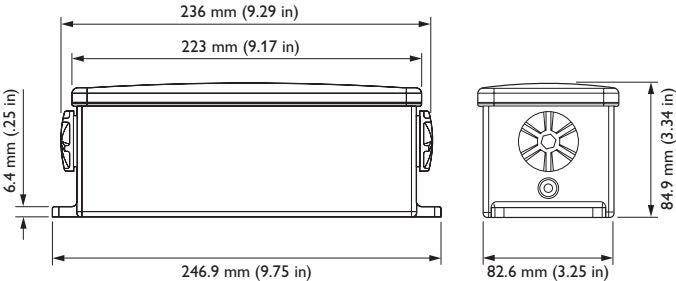
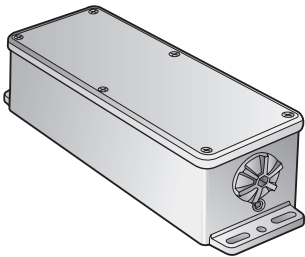
Data Filter Intellipower (Downstream) Specifications

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

Item	Specification	Details
Electrical	Input Voltage	100 – 277 VAC*, auto-ranging, 50 / 60 Hz
	Load Current	16 A maximum
Connections	Power / Data Input	2-wire and 1-wire PC terminal block connector†
	Power / Data Output	2-wire and 1-wire PC terminal block connector†
Physical	Dimensions (Height x Length x Width)	85 x 247 x 83 mm (3.3 x 9.7 x 3.2 in)
	Weight	1.2 kg (2.6 lb)
	Construction	NEMA 4X-rated cast aluminum enclosure with slots for surface mounting
	Finish	Powder-coated industrial gray matte
	Threaded Openings	.75 in NPT (UL / cUL) M25 (CE)
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -20° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Cooling	Convection
	Heat Dissipation	6 W
Certification and Safety	Certification	UL / cUL, CE
	Environment	Dry / Damp / Wet Location, IP66

* Verify that the line voltage is appropriate for the lighting fixtures in your installation. See a specific fixture’s documentation for supported line voltages.

† PC terminal block connectors accept recommended wire sizes from 8.37 – 0.823 mm² (8 – 18 AWG).



Further Information and Ordering:

For all inquiries about Intellipower equipment and services, please contact your local Philips Lighting representative, or a Philips Lighting System Service Center.

Item	Type
Data Filter IntelliPower	Upstream
	Downstream

