

iW PDS-60

INSTALLATION INSTRUCTIONS

Philips Solid-State Lighting Solutions, Inc.
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.Full.RGB
Tel 617.423.9999
Fax 617.423.9998
www.colorkinetics.com

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INTRODUCTION

iW™ PDS-60 is a compact power / data supply for indoor installations. iW PDS-60 provides power and data to IntelliWhite™ Series fixtures.

This guide contains important information on installing and using your new iW PDS-60. Please read it carefully and save it for future reference. There are few rules, but those that exist are there for your safety.

Included in this box:

- Power / data supply
- US IEC power cable
- Terminator
- 2 3-Pin Terminal Blocks
- 3 clamp-on EMI Suppression Cores (1-white, 2-Black)
- Installation Instructions

Additional items needed:

- Mounting hardware – 4 flat head screws M3 or #6

Scope of this Document

The scope of this document is to explain in easily understandable language the necessary steps to install iW PDS-60 with iW Scene Controller and assure peak performance. Its intended use is for reference only, by persons who are fully qualified. This document should never be considered a substitute for any provisions of a regulation or state and / or local code.

Identification and Warnings of Safety Hazards

In accordance with ANSI Z535.4-2002, the following system identifies the severity of the hazards associated with the products:

“**DANGER**” Imminently hazardous situation which, if not avoided, will result in death or serious injury.

“**WARNING**” Potentially hazardous situation that, if not avoided, could result in death or serious injury.

“**CAUTION**” Potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage.

WARNING: Ensure that power is disconnected before installing, wiring, or servicing iW PDS-60. Failure to adhere to these instructions can result in death or serious injury.

WARNING: iW PDS-60 must be installed by a qualified professional in accordance with NEC and relevant local codes. Failure to comply can result in death, serious injury, or property damage.

WARNING: Do not attempt to install or use iW PDS-60 until you read and understand the installation instructions and safety labels. Failure to adhere to these instructions could result in serious injury or property damage.

WARNING: Do not use iW PDS-60 if power cables are damaged. Doing so can result in death, serious injury, and property damage.

WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to take adequate measures.

WARNING: The iW PDS-60 power supply must be installed without any ventilation openings facing down.

CAUTION: Ensure that iW PDS-60 is securely attached, properly mounted, and free of excessive vibration. Failure to do so will result in property damage and void the warranty.

CAUTION: Do not hot swap. Ensure the power supply is off before connecting or disconnecting fixtures. Hot swapping will result in property damage and void the warranty.

CAUTION: Do not modify or alter iW PDS-60. Doing so will void the warranty.

NOTE: The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as Philips cannot anticipate all conceivable or unique situations.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate iW PDS-60 in such a manner as to comply with all state and local laws, ordinances, regulations, and the American National Standard Institute Safety Code.

NOTE: iW PDS-60 is shipped with a US IEC power cable. For international customers, use a country-specific IEC cable meeting the following specifications: 3-conductor, 18 AWG (1.00mm²), HAR rating for Europe, and JET rating for Japan.

INSTALLING iW PDS-60

iW PDS-60 shall be installed by a qualified electrician in accordance with NEC and relevant local codes for power supplies.

Installation Considerations

- iW PDS-60 uses Philips iW Scene Controller to control Philips IntelliWhite dimmable, color temperature adjustable fixtures by zones. A zone is a grouping of lights attached to an iW power / data supply which has been set to a specified zone designation. The zone designation of the iW power / data supply defines the zone in which the lights reside. Using iW Scene Controller, you can set the brightness level and color temperature, from cool to warm, for all lights within specified zones.

Zones are created by designating each iW PDS-60 as a specific alphanumeric zone, 1 – 9 or A – F. All fixtures attached to that iW PDS-60 reside within the designated zone. For example, in an installation with two iW PDS-60s where the first power / data supply is set to Zone 1 and the second is set to Zone 2, the lights attached to the first are in Zone 1 and the lights attached to the second iW PDS-60 are in Zone 2. For installations where all lights are controlled in unison, set each power / data supply in the installation to the same zone designator. For installations where groups of lights are controlled separately, set unique zone designators for each power / data supply.

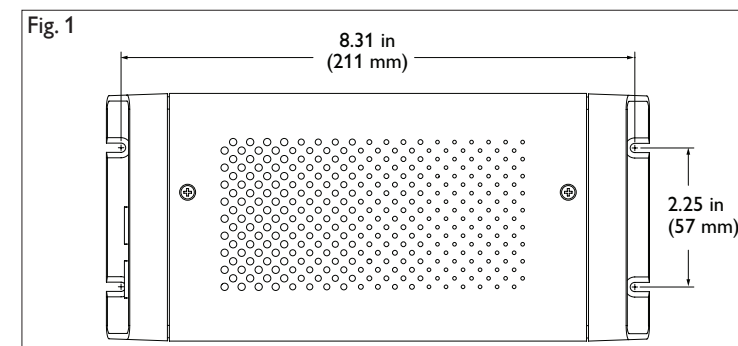
- Location of iW PDS-60 in relationship to lights: Refer to the Installation Instructions for your IntelliWhite fixture to determine the maximum distance from the fixture to install iW PDS-60.
NOTE: Adhere to all state and local wiring codes when making the leader connections.
- Maximum number of fixtures per iW PDS-60: Refer to the user guide for your IntelliWhite fixtures to determine the maximum number of fixtures per iW PDS-60.

STEPS TO A SUCCESSFUL INSTALLATION

1. Install iW PDS-60.
2. Connect iW Scene Controller.
3. Connect the lights to iW PDS-60.
4. Connect power to iW PDS-60.
5. Set the zone(s) for iW PDS-60s.

Step 1: Install iW PDS-60

- Select the location to mount the housing, keeping iW PDS-60 within the maximum distance specified for your fixture. Refer to your fixture user guide for the cable run information.
- Mount the housing to a flat surface using four M3 or #6 flat head screws suitable for the mounting surface. Mounting slots are located on each end of the housing. (See Fig. 1.)
NOTE: Do not overtighten the mounting screws.



CAUTION: iW PDS-60 must be installed in a location that allows air to move freely. Packing insulation around the housing or mounting in a sealed location that raises ambient temperature above 122° F (50° C) will result in property damage and void the warranty.

Step 2: Connect iW Scene Controller

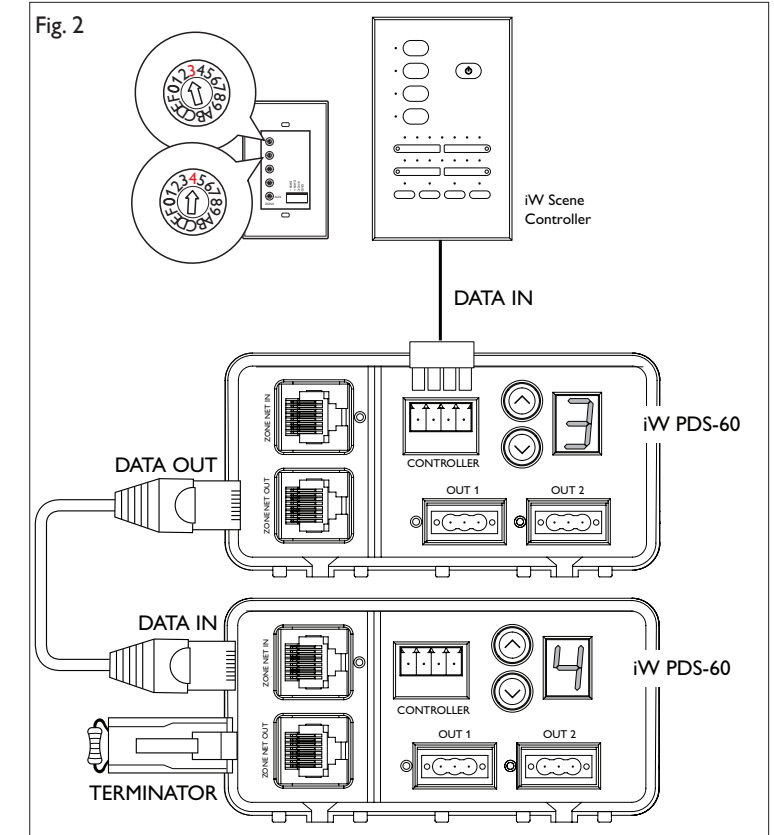
To control Philips IntelliWhite fixtures with iW PDS-60, iW Scene Controller is required. Depending on the installation parameters and configuration, iW Scene Controller can control one or multiple iW PDS-60s. Refer to the iW Scene Controller Installation Instructions for complete instructions.

- Install iW Scene Controller in a single gang wall box within 50 feet (15m) of the iW PDS-60.
- Pull the provided iW Scene Controller leader cable to the iW PDS-60.
- Plug the 4-pin connector at the end of the iW Scene Controller Leader Cable into the connector located on the back of the controller. Plug the other end into the Controller connector located on the front panel of the iW PDS-60. (See Fig. 2.)

NOTE: iW Scene Controller provides data to, and receives power from, iW PDS-60; therefore, no external power supply is needed for iW Scene Controller.

- For installations that have one iW Scene Controller controlling multiple iW PDS-60s, connect the iW Scene Controller to the first iW PDS-60 in the installation then daisy chain CAT 5 cables with RJ45 connectors to the other iW PDS-60s using the Zone Net In and Zone Net Out ports. (See Fig. 2.)

Install the provided terminator in the Zone Net Out connector in the iW PDS-60 farthest from the keypad. There should be no more than one terminator for the entire installation, no matter how many iW PDS-60s are used.



Step 3: Connecting the Lights to iW PDS-60

After mounting the power / data module, you are ready to connect your IntelliWhite series fixtures.

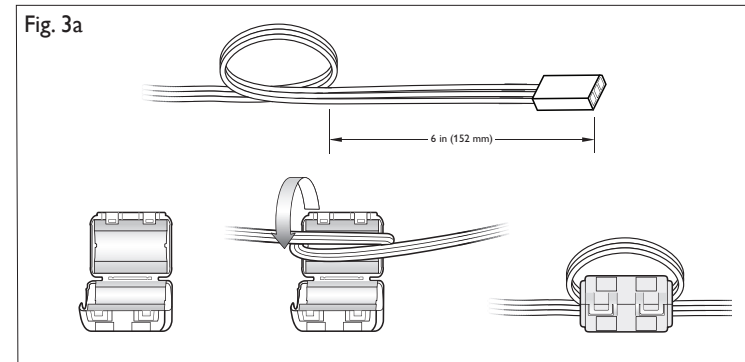
There are two output terminals on the power / data supply. Refer to the user guide for your IntelliWhite fixture for the maximum number of fixtures per output terminal allowed.

WARNING: Make sure the power supply is off before connecting or disconnecting fixtures. Otherwise, damage to the fixture will result.

- Connect the fixture cables to the output terminal connectors.
- Ensure that the red, white and black wires correspond to the 3-pin terminal block notations. (See Fig. 3.)



- Install white clamp-on EMI Suppression Core on fixture leader cable. Follow instructions in figure 3a for method of installation.



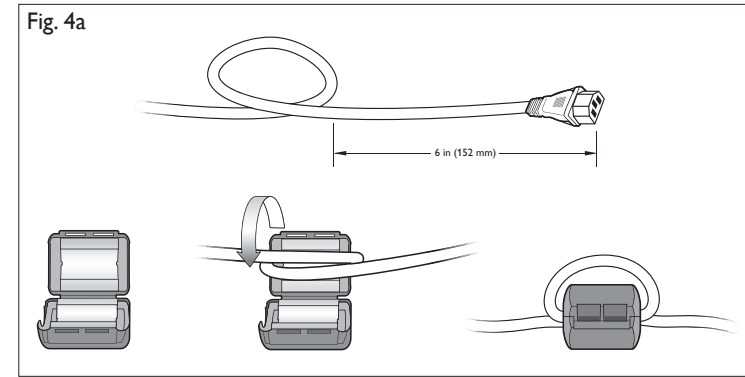
- Snap the terminal connector into the output terminal.
- Refer to Table 1 below to determine maximum number of fixtures supported. Refer to the Installation Instructions of the fixture for specific wiring requirements.

Table 1: Maximum Fixtures Supported per iW PDS-60

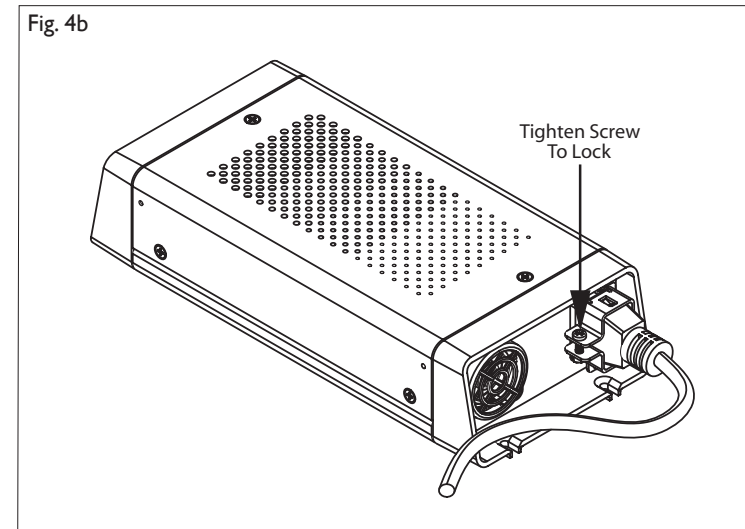
Fixture	Maximum per iW PDS-60	Maximum per Power Port
iW Profile g2	4	2
iW Blast 12 TR	1	1

Step 4: Connecting Power to iW PDS-60

- Install black clamp-on EMI Suppression Core on IEC power cable. Follow illustrations in Figure 4a for method of installation.



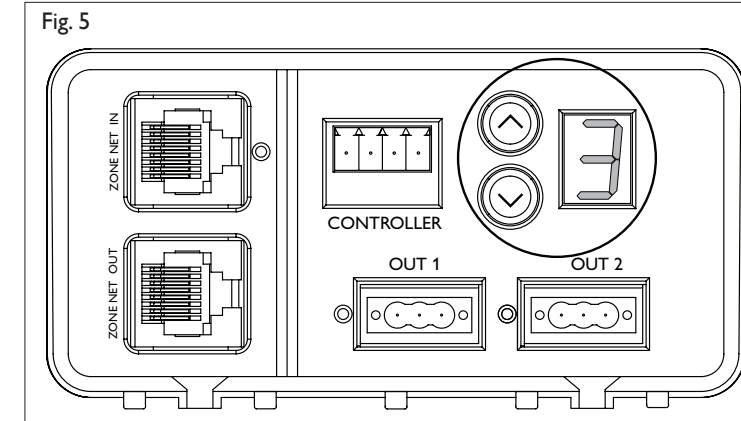
- Connect the IEC power cable to the back of iW PDS-60. Plug IEC power cable into standard 100 – 240 VAC outlet. Tighten the screw to secure the clamp. (See Fig. 4b.)



NOTE: Ensure that the power to iW PDS-60 is disconnected when attaching the lights and data to iW PDS-60.

Step 5: Set the Zone(s) for iW PDS-60s

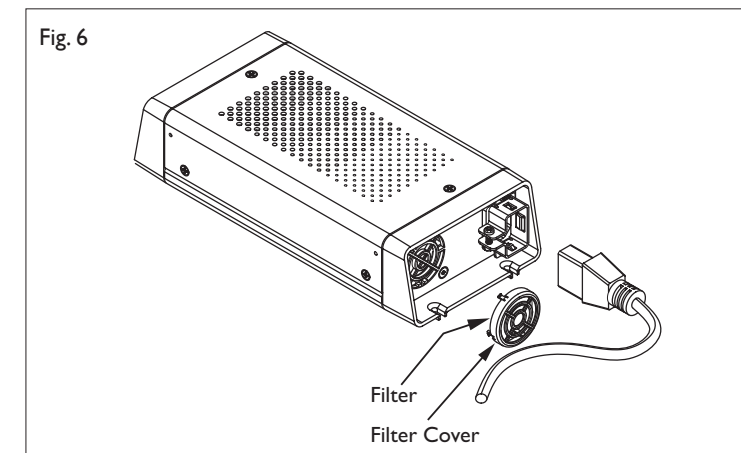
After verifying that power is connected to iW PDS-60, use the UP and DOWN buttons located next to the single digit display to set the zone for iW PDS-60 to a specific designator: 1 – 9 or A – F. The designator zero (0) is reserved for future features. (See Fig. 5.)



CLEANING AIR INTAKE FILTER

To prevent overheating, inspect the air intake filter frequently and clean as needed. The air intake filter is located on the rear of iW PDS-60.

1. Disconnect power. Never attempt to service iW PDS-60 with the power connected.
2. Using a small flat screw driver, gently pry the filter cover from the housing.
3. Remove filter and clean with water then dry completely.
4. Replace the filter into the filter cover and snap back into housing. (See Fig. 6.)



iW PDS-60 SPECIFICATIONS

POWER INPUT	100 – 240 VAC (auto ranging) 50 – 60Hz
MAX CURRENT	1.7A at 100V, 1.5A at 120V, .75A at 240V Power factor correction (PFC)
POWER OUTPUT	24VDC (62W Max.)
HEAT DISSIPATION	25 percent of total power input
AMBIENT OPERATING TEMP	14° – 122°F (-10° – 50°C)
HOUSING	Overall dimensions: 8.8 x 4 x 2 in (224 x 102 x 51 mm) Weight: 2.0 lb (907 g)
CONNECTORS	RJ45 data input and output connectors 4-pin controller connector 3-pin power output connectors Line Voltage IEC Inlet
DATA INPUT INTERFACE	Zone Control Network
DATA OUTPUT INTERFACE	Zone Control Network
ENVIRONMENT	Dry Location / Indoor
CLASSIFICATION	Class 2
LISTINGS	UL / cUL, CE