

i2Systems™

Simply  
Advanced.™

★★★★★  
MADE IN THE  
USA



**PRO FEATURE**

Wire together One, Two and Three-Color lights all on the same circuit

SMOOTH  
DIGITAL  
DIMMING TO  
1%



# Apeiron™ PRO

## DIMMABLE MARINE-GRADE LED DOWNLIGHT

The Apeiron PRO is the world's most technologically advanced Marine LED downlight. Truly a first of its kind. A finely tuned blend of classic style and the latest digital technology.



3.15" Round



3.15" Square / Round



3.15" Square / Square



1.37" Deep  
3W



2.05" Deep  
6W

## FEATURES

### True-to-Life Color

With 90+ color rendering (CRI) , engineered optics, and i2Sync™ Technology, expect beautiful, consistent white light.

### 1% Dimming

Smoothly dim to a low-level, 1% intensity using our LightLink™ Dimmers or most any 3rd party lighting system.

### 3-Color Option w/ Dimming

With the click of your dimmer switch, simply select, then dim White, Red, and a Third color choice. Powered by award-winning i2Wave™ Technology.

### Protected

3-Stage Surge Suppression, onboard SmartDriver™ and i2Thermal™ Active Thermal Management offer a level of fixture protection not found anywhere else.

### Rugged & Waterproof

Machined from solid aluminum and formed with PVD Titanium-Coated or Mil-Spec Powder-Coated stainless steel, expect industry-leading fit and finish that will last. IP67 waterproof rated\*.

\*IP67 rated. Not for use in submersible applications.



### Typical Applications

- General Lighting
- Soffit
- Pilot House
- Perimeter
- Mezzanine

### Quick Specs

3W	Power A503
6W	Power A506
90+	CRI (3000°K)
150	3W Lumen Output Typ.
300	6W Lumen Output Typ.
120°	Beam Angle

### LED Color

	3000°K Warm White
	4000°K Neutral White
	5700°K Cool White
	Red (2nd Color opt)
	Green (3rd Color opt)
	Blue (3rd Color opt)

### Finish Color

	Polished Chrome (PVD TITANIUM)
	Polished Gold (PVD TITANIUM)
	Brushed Nickel (PVD TITANIUM)
	White (MIL-SPEC POWDER COATED)
	Off-White (MIL-SPEC POWDER COATED)

CUSTOMER COMPANY


CUSTOMER CONTACT

P.O.#

CUSTOMER PHONE #

SHIPPING ADDRESS

**FIXTURE BUILDER**

A50						
<b>FIXTURE TYPE</b> Apeiron PRO 	<b>OUTPUT</b> <b>3</b> 3W <b>6</b> 6W	<b>FINISH</b> <b>PVD Titanium Coated</b> <b>1</b> Polished Chrome <b>2</b> Polished Gold <b>4</b> Brushed Nickel  <b>Powder Coated</b> <b>3</b> White <b>5</b> Off-White	<b>BEZEL SHAPE</b> <b>1</b> Round <b>2</b> Square / Round <b>4</b> Square / Square	<b>WHITE LED COLOR</b> <b>AAG</b> Cool White 5700°K <b>BBD</b> Neutral White 4000°K <b>CBBR</b> Warm White 3000°K, High CRI	<b>LED COLOR 2</b> <b>H</b> Red  <i>Leave LED Color 2 and 3 boxes blank if they don't apply.</i>	<b>LED COLOR 3</b> <b>D</b> Green <b>E</b> Blue

**ACCESSORIES**

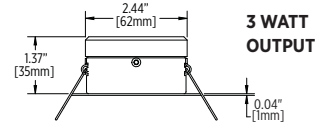
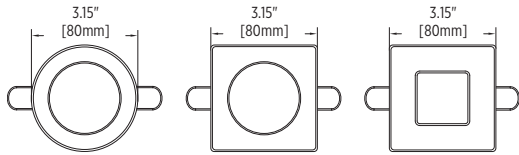
DIMMING CONTROL		TRIM RING EXTENDERS	
LIGHTLINK		PN	FINISH
<input type="checkbox"/> <b>LL-101-PRO</b>	Momentary Switch Dimmer	<input type="checkbox"/> <b>3120177-11</b>	Chrome
<input type="checkbox"/> <b>LL-105-R</b>	0-10V Bridge, 12/24V DC	<input type="checkbox"/> <b>3120177-21</b>	Gold
<input type="checkbox"/> <b>LL-205-10V</b>	0-10V Bridge, 120-277V AC	<input type="checkbox"/> <b>3120177-31</b>	White
		<input type="checkbox"/> <b>3120177-41</b>	Nickel
		<input type="checkbox"/> <b>3120177-51</b>	Off-White

LightLink Dimmers dim up to 50 Apeirons using a single control wire for dimming.  
See below for additional dimming information and wiring diagrams.

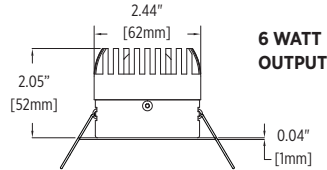
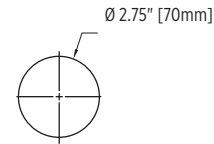
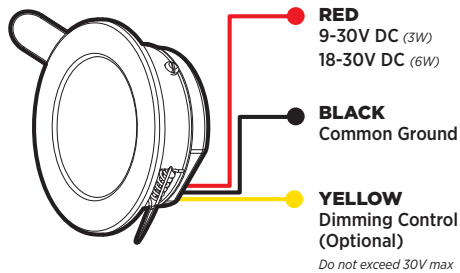
*Extends round bezel from 3.15" to 3.75" diameter.*

**QUICK SPECS**

MODEL	STANDARD OUTPUT	HIGH OUTPUT
<b>Input Voltage</b>	9-30V DC	18-30V DC
<b>Input Power</b>	3 Watts	6 Watts
<b>Lumens</b>	<i>Under Test</i>	<i>Under Test</i>
<b>Beam Angle</b>	<i>Under Test</i>	<i>Under Test</i>
<b>Efficiency</b>	<i>Under Test</i>	<i>Under Test</i>
<b>Operating Temp</b>	-20°C to 40°C	-20°C to 40°C
<b>Max. Case Temp</b>	50°C	50°C
<b>IP Rating</b>	IP67	IP67
<b>Wiring</b>	9", 18AWG	9", 18AWG
<b>Housing</b>	Stainless Steel Trim, Anodized Aluminum Housing	Stainless Steel Trim, Anodized Aluminum Housing
<b>Lens</b>	Tempered Glass w/ Diffuser	Tempered Glass w/ Diffuser

**DIMENSIONS**

Bezel thickness may vary  
depending on configuration specified

**MOUNTING****WIRE FUNCTION**

**LIGHTLINK™** See wiring examples below.

**Using 3rd Party Multiplex & PWM Dimmers:**

The Yellow Dimming Control wire is engineered to work with i2Systems LightLink™ Dimmers and 3rd party PWM type dimmers.

To use a 3rd party PWM dimmer, drive the Yellow Dimming Control Wire using a Pulse Width Modulation (PWM) Controller. By driving the Yellow Dimming Control Wire Low to DC Common, the Fixture turns off. By driving the Yellow Dimming Control Wire High to DC Positive (i.e. +24V), or by allowing the wire to Float (no connection), the Fixture turns on to 100%.

The PWM signal must be a Square Wave at a fixed frequency and a maximum voltage of 30V DC. Frequency range may be between 100Hz and 1kHz (user selected). A wiring example is shown on the last page of this spec sheet.

**PROTECTION FEATURES****Active Thermal™**

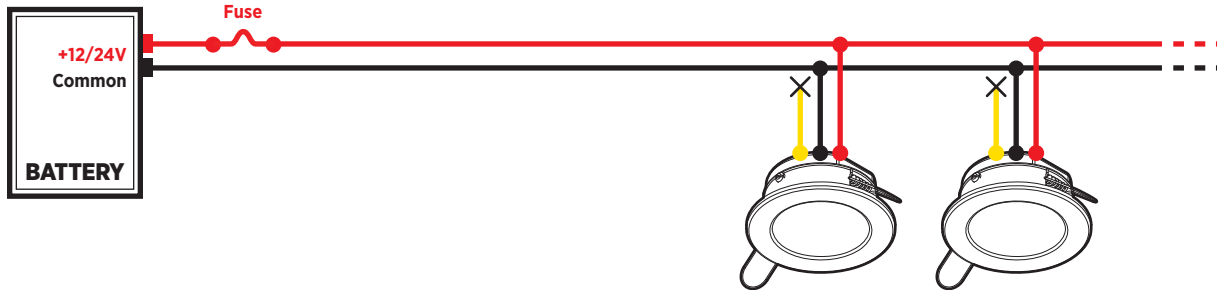
Active Thermal dims the Apeiron to help reduce the risk of overheating.

**Electrical Protection**

- Dim Line Protected to 30V DC
- 3-Stage Surge Suppression
- Reverse Polarity Protection
- Auto-Reset Fuse

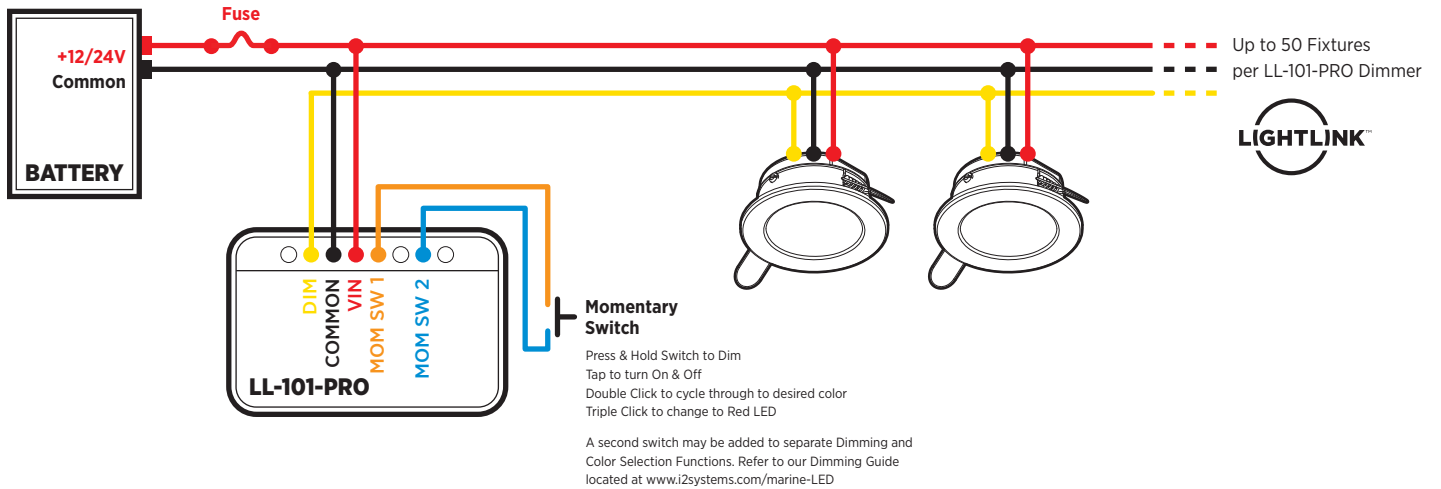
**WIRING EXAMPLE**

**12/24V DC NO DIMMING**



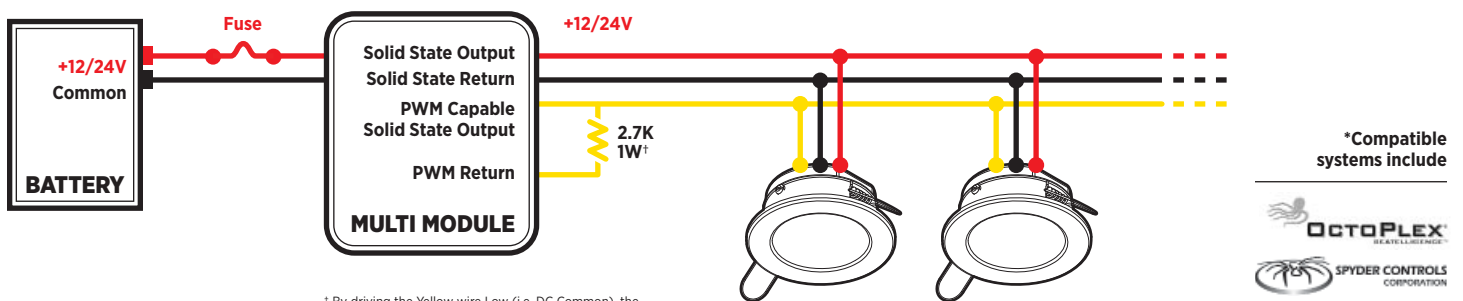
**WIRING EXAMPLE**

**12/24V DC PUSH BUTTON SWITCH DIMMING**



**WIRING EXAMPLE**

**12/24V DC 3RD PARTY MULTIPLEX DIMMER\***



\* By driving the Yellow wire Low (i.e. DC Common), the Fixture turns off. Many Multiplex type systems were originally designed for halogen lamps and do not Drive Low, in which case in this example a 2.7K, 1 Watt Pull Down Resistor pulls down the Yellow Dimming Line to DC Common when the PWM is not driven High (thus shutting off the Fixtures).