

i2Systems

Simply
Advanced.™

★★★★★
MADE IN THE
USA



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



5-6"
PERFECT
FOR LARGER
VESSELS

IN USE

The Apeiron PRO XL was first introduced on Viking Yacht's new 92-foot vessels in 2014

Apeiron™ PRO XL

DIMMABLE MARINE-GRADE LED DOWNLIGHT

The Apeiron PRO is the world's most technologically advanced Marine LED downlight. Truly a first of its kind. Now with the 6-inch round and 5.15-inch square XL, you have the perfect fixture for larger areas and vessels. More light coverage, less fixtures, all PRO features.



6" Round



5.15" Square



1.33" Deep

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

6W	Power
90+	CRI (3000°K)
300	Lumen Output Typ.
180°	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)

A perfect balance of technical sophistication and elegance, the Apeiron PRO XL offers a finely tuned blend of traditional style and digital technology. Ideal for use in larger areas to prevent a spotty look.

CUSTOMER COMPANY

CUSTOMER CONTACT

P.O.#

CUSTOMER PHONE #

SHIPPING ADDRESS

PATENTS PENDING

FIXTURE BUILDER

A52	6					
FIXTURE TYPE Apeiron PRO XL	OUTPUT 6 6W	FINISH PVD Titanium Coated 1 Polished Chrome 2 Polished Gold 4 Brushed Nickel Powder Coated 3 White 5 Off-White	BEZEL SHAPE 1 Round (6") 4 Square / Square (5.15")	WHITE LED COLOR AAG Cool White 5700°K BBD Neutral White 4000°K CBBR Warm White 3000°K, High CRI	LED COLOR 2 H Red	LED COLOR 3 D Green E Blue

6" Round 5.15" Square

Leave LED Color 2 and 3 boxes blank if they don't apply.

ACCESSORIES

DIMMING CONTROL

LIGHTLINK™

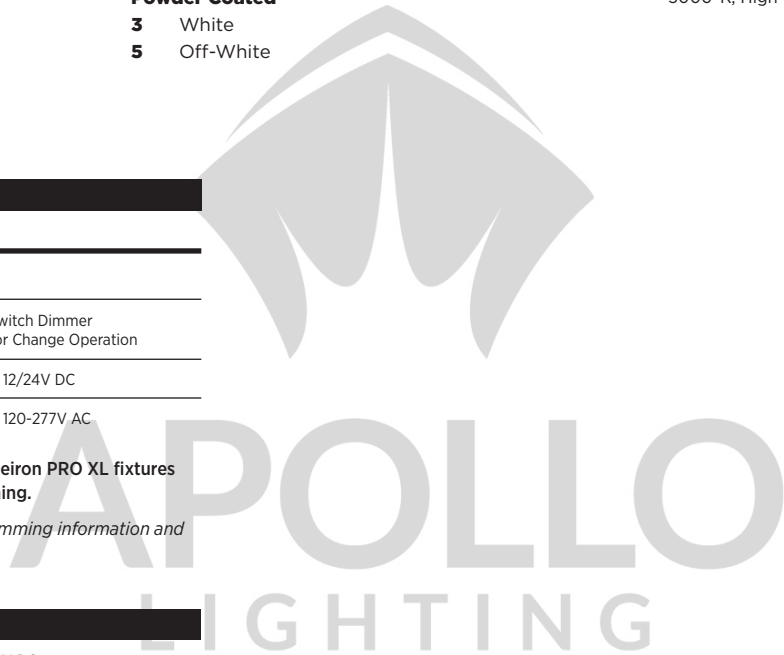
- LL-101-PRO** Momentary Switch Dimmer with LED Color Change Operation
- LL-105-R** 0-10V Bridge, 12/24V DC
- LL-205-10V** 0-10V Bridge, 120-277V AC

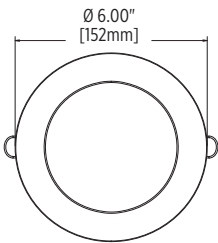
LightLink Dimmers dim up to 50 Apeiron PRO XL fixtures using a single control wire for dimming.

See following pages for additional dimming information and wiring diagrams.

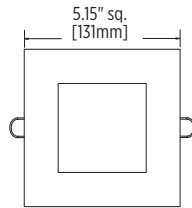
QUICK SPECS

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

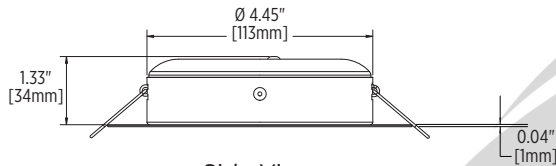


DIMENSIONS

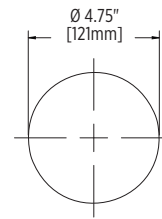
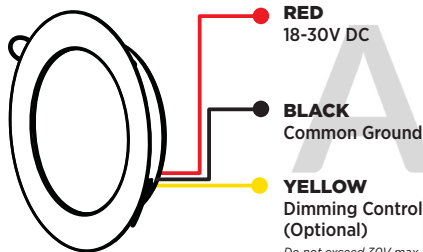
6.00"
Round Bezel



5.15"
Square / Square Bezel



Side View

MOUNTING**WIRE FUNCTION**

RED
18-30V DC

BLACK
Common Ground

YELLOW
Dimming Control
(Optional)
Do not exceed 30V max

LIGHTLINK™ See wiring examples on the following pages.

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**i2Thermal™**

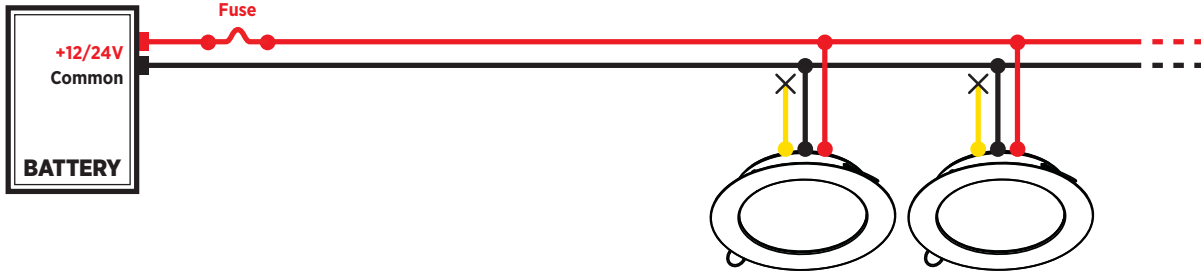
Patent-pending active thermal management continually monitors the fixture and discreetly dims if needed to reduce the risk of overheating.

Electrical Protection

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

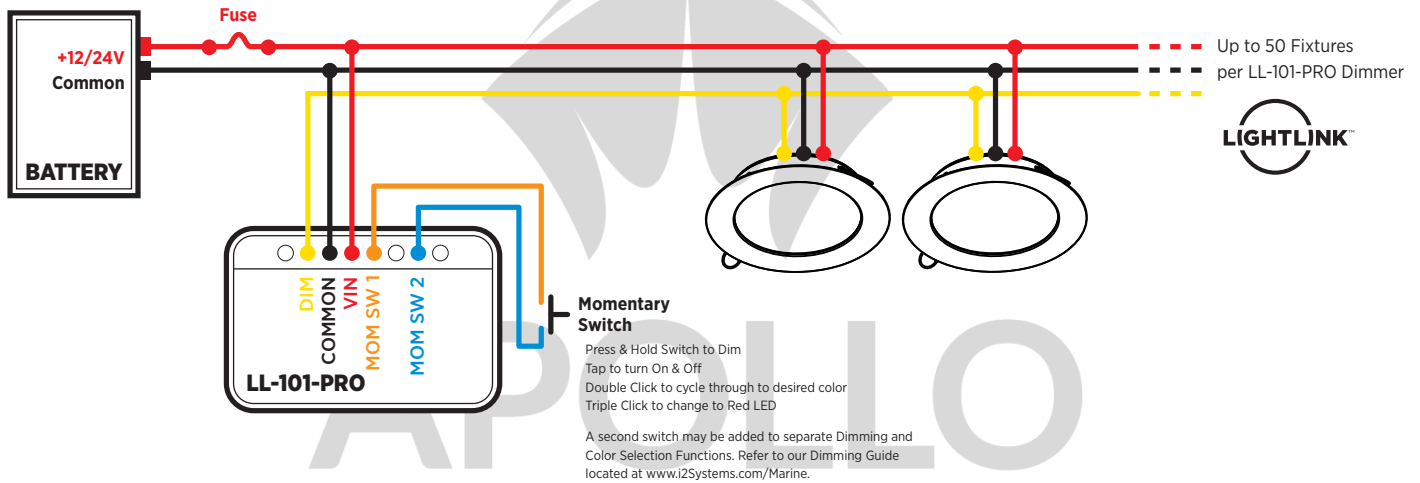
WIRING EXAMPLE

12/24V DC NO DIMMING



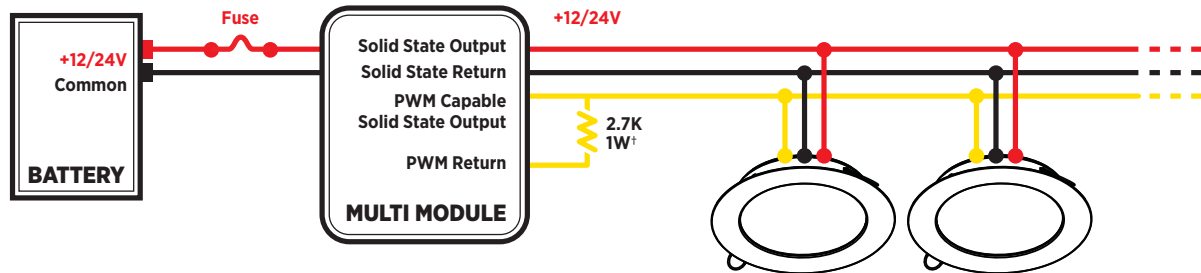
WIRING EXAMPLE

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).

*Compatible systems include



EmpirBus™

