APEIRON A2162
LED Recessed Light for General Lighting

PRODUCT HIGHLIGHTS
- 6 Watts
- 9-30V DC Input
- 0 to 100% Dimming
- Active Thermal Management
- 3” Diameter
- Stainless Steel Construction
- IP67 Rated

Features

- 0 TO 100% DIMMING
  With the use of i2Systems LightLink technology, compatible dimming interfaces include push-button dimming, most leading halogen/incandescent TRIAC style dimmers, 0 to 10V control, and similar controls. In addition, through the use of most Multiplex type systems, the A2162 may be dimmed directly without external controllers.

- ACTIVE THERMAL MANAGEMENT
  Active Thermal Management maximizes the A2162’s light output while maintaining a normal fixture operating temperature.

- RUGGED DESIGN & IP67
  Stainless Steel bezel & springs, Anodized Aluminum heat sink housing, electronic regulation to the LED source, and sealed IP67 design ensure product longevity. Truly an engineered solution.

- SMARTDRIVER INTEGRATED
  i2Systems SmartDriver technology is integrated directly inside the fixture, allowing integration to both high-volt (using a power converter) and low-volt DC battery systems. One light may be used for both general lighting and on the battery-backup circuit.

- ADVANCED OPTICAL SYSTEM
  Even light, with no LED “dots” or pixilation, provides the halogen look without the intense heat and high power load.

- STAINLESS STEEL TRIM WITH TITANIUM COATING
  Round, square, square/square and rectangle shapes, with six finish options. Physical Vapor Deposition (PVD) coating provides a very durable surface finish which will not tarnish or discolor.

- BEAUTIFUL 2700K WARM WHITE
  In addition to Cool (6500K) and Neutral (4100K) LED colors, the A2162 is available in 2700K Warm White ready to complement any interior. With i2Systems AccuWhite technology, you can be sure from light to light and batch to batch, that the quality of light and color remain constant.

SPECIFICATIONS

SUITABLE ENVIRONMENTS
- Dry
- Damp
- Wet

LED COLORS
- Cool White
- Neutral White
- Warm White

BEZEL FINISHES
- Powder Coated:
  - White
  - Off-White
  - Black
- PVD Coated:
  - Polished Chrome
  - Polished Gold
  - Brushed Nickel

BEZEL SHAPES
- Round
- Square
- Square/Square
- Double
- Triple

BEAM ANGLES
- 120° Full Angle

CERTIFICATIONS
- FCC
- Rosh
- IP67
LED Recessed Light for General Lighting

**SPECIFICATIONS**

**ITEM** | **PARAMETER** | **VALUE**
--- | --- | ---
**Electrical** | Input Power | 6 Watts* (single fixture)
 | Input Voltage Range | 9-12V DC
 | Integrated Driver | ✓
 | 0-100% Dimming | ✓
 | Protection Features | Active Thermal Management, Protected Dim Line, Transient Protection, Reverse Polarity, Automatic Fuse

**Optical**

<table>
<thead>
<tr>
<th>Extending Angle</th>
<th>LED Color</th>
<th>LED Color per Fixture</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIP Full Angle</td>
<td>Cool White, Neutral White, Warm White</td>
<td>1</td>
<td>Class 2 LED Product</td>
</tr>
</tbody>
</table>

**Physical**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Housing Construction</th>
<th>Lens Material</th>
<th>Bezel Shapes</th>
<th>Finishes</th>
<th>Mounting Method</th>
<th>Operating Temp. Range</th>
<th>Humidity</th>
<th>Environment</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to drawings on right</td>
<td>Aluminum, Stainless Steel</td>
<td>Tempered Glass, Frosted</td>
<td>Round, Square, Square/Square, Double, Triple</td>
<td>PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel Powder Coated: White, Off-White, Black</td>
<td>Spring Clips, Stainless Steel</td>
<td>-20°C to 40°C, Max. Case Temp (Tc): 50°C</td>
<td>0% to 95%, non-condensing</td>
<td>Dry, Damp, Wet**</td>
<td>FCC Part 15, Class A, Rohs Compliant, IP67</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>KEYWORD</th>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
<th>FIXTURE MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim Ring Extender</td>
<td>LL-101 Series</td>
<td>Dimming Controller with Momentary (MOM) Switch Interface. Dims up to 20 Apeiron A2162</td>
<td></td>
</tr>
<tr>
<td>LightLink LI-101</td>
<td>LI-105 Series</td>
<td>Dimming Controller, Multiple interfaces including 0 to 10V Control. Dims up to 50 Apeiron A2162</td>
<td></td>
</tr>
<tr>
<td>LightLink LI-105 R</td>
<td>LI-205 Series</td>
<td>Dimmer, Multiple Interfaces including 0 to 12V Control. Dims up to 50 Apeiron A2162</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>PS24V100W-01</td>
<td>Power Supply, 100W, 120-277VAC Input, 24VDC Output. Powers up to 12 Apeiron A2162</td>
<td></td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **Round**: 3.15” (80mm)
- **Square**: 3.15” (80mm)
- **Square/Square**: 3.15” (80mm)
- **Triplet**: 3.15” (80mm)

**MOUNTING**

- For Double or Triple applications, bore the appropriate number of holes 3.15” apart on center.

**WIRE FUNCTION**

- **RED** 9-30V DC
- **BLACK** Common Ground
- **YELLOW** Dimming Control (Optional) 9-30V max

**INSTALLATION EXAMPLES**

**Line Voltage EXAMPLE:** 120-277V AC Input

**3rd Party Controller**

**EXAMPLE:** Shares with 3rd Party PWM Controller

**Switch Dimming**

**EXAMPLE:** Momentary Switch Dimming via LightLink LI-101

**ORDERING NUMBER**

- **FACTORY NUMBER**
- **USER SELECTED OPTION**
  - Polished Chrome Finish, Square Bezel, Warm White LED

**A2162Z**

- **Bezel Finish**
  - PVD Coated: 1 Brushed Nickel
  - Powder Coated: 3 White
  - 6 Black
- **Bezel Shape**
  - 1 Bezel
  - 2 Square
- **LED Color**
  - Cool White
  - Neutral White
  - Warm White
- **XXX**
  - Color Bin Code

*Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire accordingly for worst case input voltage.

**ORDERING NUMBER**