

**AP Series – Miniature Pilot Lights**

**Key features:**

- Long service life, low maintenance
- Space saving miniature style
- Dome or flat lens models
- Built-in current-limiting resistor
- Five illumination colors: red, green, amber, yellow, and white
- Transformer (120V AC and 240V AC) and DC-DC Converter (110V DC) options on 12mm and 16mm units



UL Recognized  
File No. E55996



CSA Certified  
File No. LR21451



\*AP8/AP1 series only.

**Specifications**

|                               |  |
|-------------------------------|--|
| <b>Lamp</b>                   | Built-in LED with current limiting resistor  |
| <b>Operational Voltage</b>    | 5, 6, 12, 24VDC (full voltage),<br>110/120, 220/240VAC, (with transformer)<br>110VDC (with converter)  |
| <b>Current Ratings</b>        | AP8: 5V DC/9mA, 12V DC/9mA, 24V DC/9mA, 12V AC/15mA, 24V AC/15mA<br>AP1: 5V DC/9mA, 12V DC/9mA, 24V DC/9mA, 12V AC/15mA, 24V AC/15mA<br>AP2: 6V DC/33mA, 12V DC/22mA, 24V DC/11mA<br>AP6: 6V DC/33mA, 12V DC/22mA, 24V DC/11mA |
| <b>Operating Temp.</b>        | -20°C to +55°C   |
| <b>Operating Humidity</b>     | 45 to 85% RH   |
| <b>Insul. Resistance</b>      | 100MΩ min. (500V DC megger)<br>Between live and dead parts   |
| <b>Rev. Withstand Voltage</b> | AP2/AP6: 100V<br>AP1/AP8: 200V   |
| <b>Solder Terminal</b>        | Soldering 260°C maximum (5 sec.)   |
| <b>Degree of Protection</b>   | AP8: IP40 (dustproof)<br>Other Series: IP65 (oiltight)   |

**Optional Adaptors/Converters**

|                              | <b>Transformer</b>   | <b>DC-DC Converter</b>   |
|------------------------------|--|--|
| <b>Applicable Units</b>      | AP2 & AP6 (with 6V LED only)   |  |
| <b>Operating Voltage</b>     | 110/120VAC 50/60 Hz<br>220/240VAC 50/60 Hz   | 110V DC (90 to 140V DC)  |
| <b>Power Consumption</b>     | 1.6 VA maximum   | 1W maximum   |
| <b>Insulation Voltage</b>    | 250 V AC   | 140V DC  |
| <b>Insulation Resistance</b> | 10MΩ min. (500V DC megger) Between live and dead parts                               |  |
| <b>Dielectric Strength</b>   | 2,000V AC, 1 minute Between live/dead parts<br>2,000V AC, 1 minute Between terminals | 2,000V AC, 1 minute Between live/dead parts<br>1,500V AC, 1 minute Between terminals |



Available as one piece only (replacement LEDs are not available).

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Miniature Pilot Lights

AP Miniature Pilot Lights - ø8 & ø10mm

| Appearance  | Lens Style | Operating Voltage                                      | Part Numbers                        |
|---|------------|--|-------------------------------------|
| <br>AP8 Series - ø8mm  | Dome       | 5V DC +/- 5%<br>12V AC/DC +/- 10%<br>24V AC/DC +/- 10% | AP8M255-Ⓢ<br>AP8M211-Ⓢ<br>AP8M222-Ⓢ |
|   | Flat       | 5V DC +/- 5%<br>12V AC/DC +/- 10%<br>24V AC/DC +/- 10% | AP8M155-Ⓢ<br>AP8M111-Ⓢ<br>AP8M122-Ⓢ |
| <br>AP1 Series - ø10mm | Dome       | 5V DC +/- 5%<br>12V AC/DC +/- 10%<br>24V AC/DC +/- 10% | AP1M255-Ⓢ<br>AP1M211-Ⓢ<br>AP1M222-Ⓢ |
|   | Flat       | 5V DC +/- 5%<br>12V AC/DC +/- 10%<br>24V AC/DC +/- 10% | AP1M155-Ⓢ<br>AP1M111-Ⓢ<br>AP1M122-Ⓢ |

Ⓢ Color Codes

| Color      | Code |
|------------|------|
| Amber      | A    |
| Green      | G    |
| Red        | R    |
| Blue       | S*   |
| Warm White | W    |
| Cool White | PW   |
| Yellow     | Y    |

- 1. In place of Ⓢ, specify the color code.
- 2. For dimensions, see page 445.
- 3. For accessories, see page 444.

AP Miniature Pilot Lights - ø12 & ø16mm


| Appearance  | Lens Style | Operating Voltage                                | Part Numbers                        |
|---|------------|--|-------------------------------------|
| <br>AP2 Series - ø12mm   | Dome       | 6V DC +/- 5%<br>12V DC +/- 10%<br>24V DC +/- 10% | AP2M266-Ⓢ<br>AP2M211-Ⓢ<br>AP2M222-Ⓢ |
|   | Flat       | 6V DC +/- 5%<br>12V DC +/- 10%<br>24V DC +/- 10% | AP2M166-Ⓢ<br>AP2M111-Ⓢ<br>AP2M122-Ⓢ |
| <br>AP6 Series - ø16mm | Dome       | 6V DC +/- 5%<br>12V DC +/- 10%<br>24V DC +/- 10% | AP6M266-Ⓢ<br>AP6M211-Ⓢ<br>AP6M222-Ⓢ |
|   | Flat       | 6V DC +/- 5%<br>12V DC +/- 10%<br>24V DC +/- 10% | AP6M166-Ⓢ<br>AP6M111-Ⓢ<br>AP6M122-Ⓢ |

Ⓢ Color Codes

| Color      | Code |
|------------|------|
| Amber      | A    |
| Green      | G    |
| Red        | R    |
| Warm White | W    |
| Yellow     | Y    |

- 1. In place of Ⓢ, specify the color code.
- 2. For dimensions, see page 445.
- 3. For accessories, see page 444.

Optional Transformers and DC-DC Converters (for AP2 and AP6 only)

| Appearance  | Style           | Voltage                    | Part Numbers           |                        |
|---|-----------------|----------------------------|------------------------|------------------------|
|   |                 |                            | Used with AP2 Series   | Used with AP6 Series   |
|  | Transformer     | 110/120V AC<br>220/240V AC | AP2-0126D<br>AP2-0246D | AP6-0126D<br>AP6-0246D |
|   | DC-DC Converter | 110V DC<br>(90–140V DC)    | AP2-016DD              | AP6-016DD              |

- 1. Optional Transformers and DC-DC converters snap onto the back of AP2 or AP6 pilot lights.
- 2. Transformers and DC-DC Converters step down to 6V.
- 3. For dimensions, see page 445.