**UB Indicators**

**Mounting Types**

- **PCB Mounting**
  - 01 Square
  - 03 Rectangular
- **Snap-in Mounting**
  - 04 Square
  - 06 Rectangular
  - 06B Rectangular with Side Barriers
- **Standard with Solder Lug terminals**

**Housing**

- K Black

**Terminals**

- 01 Silver Solder Lug (for Snap-in Mounting)
- W03 Silver Straight PC (for PCB Mounting)

**LEDs**

- **Bright LED**
  - 5C Red
  - 5D Amber
  - 5F Green
- **Super Bright LED**
  - 6B White
  - 6F Green
  - 6G Blue
- **Super Bright Bicolor LED**
  - 6CF Red/Green
  - 6DG Amber/Blue

**Cap Types & Colors**

- **Full Face Illuminated Cap for Bright LED**
- **Lens/Diffuser Colors**
  - CB Red/White
  - FF Green/Green
  - CC Red/Red
  - *FJ Green/Clear
  - *CJ Red/Clear
  - JB Clear/White
  - DB Amber/White
  - JC Clear/Red
  - DD Amber/Amber
  - JD Clear/Amber
  - *DJ Amber/Clear
  - JF Clear/Green
  - FB Green/White
  - *JJ Clear/Clear
- **Full Face Illuminated Cap for Super Bright LED**
  - JB Clear Lens/White Diffuser
- **Spot Illuminated Cap for Bright & Super Bright LEDs**
  - AB Black with White Window
- **Bicolor Alternating Legend Cap/Diffuser for Square or Rectangular**
  - JCF Red/Green
  - JDG Amber/Blue

**Description for Typical Ordering Example**

**UB01KW035C-JC**

**Alternating Legends**

- 11 ON (pos) OFF (pos)
- 12 ON (neg) OFF (neg)
- 13 START STOP
- 14 OPEN CLOSE

**Part Numbers for Alternating Legends**

<table>
<thead>
<tr>
<th>Color</th>
<th>Square Alternating Legends</th>
<th>Rectangular Alternating Legends</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Red/Green</strong></td>
<td>AT9450CF11 AT9450CF12 AT9450CF13 AT9450CF14</td>
<td>AT9450DG11 AT9450DG12 AT9450DG13 AT9450DG14</td>
</tr>
<tr>
<td><strong>Amber/Blue</strong></td>
<td>AT9450DG11 AT9450DG12 AT9450DG13 AT9450DG14</td>
<td>AT9451CF11 AT9451CF12 AT9451CF13 AT9451CF14</td>
</tr>
</tbody>
</table>

Refer to Ordering Table for Alternating Legend that corresponds with last 2 digits of part number.

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UB Indicators

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11/12/18
UB Indicators

BRIGHT & SUPER BRIGHT LED COLORS & SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on bottom of switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. Resistor value can be calculated by using the formula in the Supplement section. LED is an integral part of switch and not available separately.

<table>
<thead>
<tr>
<th>Super Bright LEDs are Electrostatic Sensitive</th>
<th>Bright</th>
<th>Super Bright</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>5C</td>
<td>5D</td>
</tr>
<tr>
<td>Red</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Amber</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Green</td>
<td>1.85</td>
<td>2.0</td>
</tr>
<tr>
<td>White</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Green</td>
<td>0.40</td>
<td>0.42</td>
</tr>
<tr>
<td>Blue</td>
<td>-25°C ~ +50°C</td>
<td>-25°C ~ +50°C</td>
</tr>
</tbody>
</table>

Full Face Illuminated Caps for Bright LED

Colors Available for Square Cap:
- CB
- DJ
- JC
- AT4074 Lens
- DJ
- AT4075 Diffuser
- DB
- FJ
- JJ
- AT4076 Diffuser
- DD
- JB

Lens & Diffuser Material: Polycarbonate
Lens Finish: Glossy
Diffuser Finish: Textured

Full Face Illuminated Caps for Super Bright Bicolor LED

- AT4074 Square Lens
- AT4177 Rectangular Lens
- AT4188 Square Diffuser
- AT4189 Rectangular Diffuser

Spot Illuminated Caps

Black Cap with Translucent White Window for LED Display
- AT4119 Square for Bright and Super Bright LED
- AT4120 Rectangular for Bright and Super Bright LED

Material: Polycarbonate
Finish: Matte

Color Codes:
- A Black
- B White
- C Red
- D Amber
- F Green
- J Clear

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SUPER BRIGHT BICOLOR LEDs FOR ALTERNATING LEGENDS

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on bottom of switch. If the source voltage exceeds the rated voltage, a ballast resistor is required. Resistor value can be calculated by using the formula in the Supplement section. LED is an integral part of switch and not available separately.

### Electrical Specifications for Super Bright Bicolor LEDs

<table>
<thead>
<tr>
<th></th>
<th>Color</th>
<th>6CF</th>
<th>6DG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Super Bright LEDs are Electrostatic Sensitive</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Forward Current</td>
<td>I_{FM}</td>
<td>* 30</td>
<td>* 30</td>
</tr>
<tr>
<td>Typical Forward Current</td>
<td>I_{F}</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>V_{F}</td>
<td>2.3</td>
<td>3.2</td>
</tr>
<tr>
<td>Maximum Reverse Voltage</td>
<td>V_{RM}</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Current Reduction Rate Above 25°C</td>
<td>ΔI_{F}</td>
<td>0.33</td>
<td>0.33</td>
</tr>
<tr>
<td>Ambient Temperature Range</td>
<td></td>
<td>−25° ~ +50°</td>
<td>−25° ~ +50°</td>
</tr>
</tbody>
</table>

* Value applies to single color illumination for either Red or Green or Amber or Blue. When both colors are illuminated simultaneously, the sum of the currents should not exceed the smallest value of the maximum forward current.

<table>
<thead>
<tr>
<th></th>
<th>Red</th>
<th>Green</th>
<th>Amber</th>
<th>Blue</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Super Bright Bicolor Red/Green LED with 2 elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Super Bright Bicolor Amber/Blue LED with 2 elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Alternating Legend Caps for Super Bright Bicolor LED

- **JCF**
  - AT4074 12.0mm Square Flat Cap
  - AT9450 Square Legend Insert
  - AT4188 Square Diffuser

- **JDG**
  - AT4117 12.0mm x 17.0mm Rectangular Flat Cap
  - AT9451 Rectangular Legend Insert
  - AT4189 Rectangular Diffuser

- Lens & Diffuser Material: Polycarbonate
- Legend Insert Material: Polyethylene Terephthalate (PET)
- Lens Finish: Glossy
- Diffuser Finish: Textured

### Standard Alternating Legend Pairs

- **11** ON OFF
- **12** ON OFF
- **13** START STOP
- **14** OPEN CLOSE

Green/Red or Blue/Amber  Green/Red or Blue/Amber  Green/Red or Blue/Amber  Green/Red or Blue/Amber

Cap illumination is alternating Green/Red or Blue/Amber; legend text is black. Contact factory for other Alternating Legends.

Legend illustrations are approximate representations of the actual characters on the filters.
## TYPICAL INDICATOR DIMENSIONS

### Square • PCB Mount

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Panel Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB01KW035C-JC</td>
<td><img src="image1" alt="Dimensions" /></td>
<td>1.0 ~ 3.2mm (.039 ~ .126&quot;)</td>
</tr>
</tbody>
</table>

### Rectangular • PCB Mount

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Panel Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB03KW035F-FF</td>
<td><img src="image2" alt="Dimensions" /></td>
<td>1.0 ~ 3.2mm (.039 ~ .126&quot;)</td>
</tr>
</tbody>
</table>

### Square • Snap-in Mount • Built-in Bezel

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Panel Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB04KW015C-JC</td>
<td><img src="image3" alt="Dimensions" /></td>
<td>1.0 ~ 3.2mm (.039 ~ .126&quot;)</td>
</tr>
</tbody>
</table>

### Rectangular • Snap-in Mount • Built-in Bezel

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Panel Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB06KW015D-DD</td>
<td><img src="image4" alt="Dimensions" /></td>
<td>1.0 ~ 3.2mm (.039 ~ .126&quot;)</td>
</tr>
</tbody>
</table>

### Rectangular • Snap-in Mount • Built-in Side Barriers

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Panel Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB06BK015F-FF</td>
<td><img src="image5" alt="Dimensions" /></td>
<td>1.0 ~ 3.2mm (.039 ~ .126&quot;)</td>
</tr>
</tbody>
</table>
## TYPICAL INDICATOR DIMENSIONS

### Square • PCB Mount • Alternating Legends

- UB01KW036DG-JDG11

### Rectangular • PCB Mount • Alternating Legends

- UB03KW016DG-JDG11

### Square • Snap-in Mount • Built-in Bezel • Alternating Legends

- UB04KW016DG-JDG11

### Rectangular • Snap-in Mount • Built-in Bezel • Alternating Legends

- UB06KW016DG-JDG11

### Rectangular • Snap-in Mount • Built-in Side Barriers • Alternating Legends

- UB06BKW016DG-JDG11

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Panel Thickness:

- (1.0 ~ 3.2mm) .039 ~ .126”

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**UB Indicators**

Complement to UB Pushbuttons

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