MicroPulse™ Ultra  | External Mount/Perimeter Lights

**Features**

- Superior warning with high-powered LEDs.
- Low-profile design offers wider range of mounting locations.
- 18 (MPS3U and MPS1220U), 23 (MPS6U and MPS620U) or 25 (MPS12U) selectable flash patterns.
- Suitable for external and/or internal mounting applications.
- Includes black bezel and gasket, optional bezels available in Chrome or White.
- Single/multi-unit synchronization.
- Available in single, split, and dual color models.
- Three-year LED warranty.

**Approvals**

MicroPulse Ultra 3
- SAE J845, Class 1 (Amber, Red, Blue, White)
- SAE J595, Class 1 (Amber, Red, Blue)

MicroPulse Ultra 6 — Split and Dual Color
- SAE J845, Class 1 (Amber, Red, Blue)
- SAE J595, Class 1 (Amber, Red, Blue)

MicroPulse Ultra 12 — Split and Dual Color
- SAE J845, Class 1 (Amber, Red)
- SAE J595, Class 1 (Amber, Red)

**Highly Effective Ultra Slim Warning Light**

The MicroPulse™ Ultra models have a low-profile design that offers a wider range of mounting options to fit various applications. The advanced high-output LED lighthouse can be programmed to operate as a single unit or in synchronization with multiple MicroPulse lighthoods. Built-in flash patterns enable multiple vehicle perimeter lights to be either synchronized in the same pattern or in opposite sequence.

**Built to Stand Up to the Most Punishing Conditions**

The MicroPulse Ultra lens is made of UV resistant polycarbonate to protect against harsh conditions. Models include a fully encapsulated water-proof housing, which provides a barrier against moisture and condensation. All MicroPulse Ultra perimeter lights are backed by Federal Signal’s comprehensive three-year warranty.

**A Versatile Solution for Supplemental Warning Light Application**

Suitable for external and/or internal mounting applications, the MicroPulse Ultra comes in many colors, including Amber, Blue, Red and White, as well as split-color and dual-color combinations. Models come standard with a black bezel and are also available with an optional chrome or white bezel.

MicroPulse Ultra is only 0.35" thick
## MicroPulse Ultra Compliance Chart

### MPS300U

<table>
<thead>
<tr>
<th>Color</th>
<th>J845 Coverage (MPS3000U)</th>
<th>J595 Class</th>
<th>CA T13 Class</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>1 ≥50°</td>
<td>1</td>
<td>B</td>
<td>Lower 2</td>
</tr>
<tr>
<td>Red</td>
<td>1 ≥60°</td>
<td>1</td>
<td>B</td>
<td>Lower 2</td>
</tr>
<tr>
<td>Blue</td>
<td>1 ≥60°</td>
<td>1</td>
<td>B</td>
<td>Lower 3</td>
</tr>
<tr>
<td>White</td>
<td>1 ≥50°</td>
<td>N/A</td>
<td>N/A</td>
<td>Lower 1</td>
</tr>
</tbody>
</table>

### MPS600U

<table>
<thead>
<tr>
<th>Color</th>
<th>J845 Coverage (MPS600U)</th>
<th>J845 Coverage (MPS620U)</th>
<th>J595 Class</th>
<th>CA T13 Class</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>1 &gt;70°</td>
<td>&gt;50°</td>
<td>1</td>
<td>B</td>
<td>Lower 1</td>
</tr>
<tr>
<td>Red</td>
<td>1 &gt;70°</td>
<td>&gt;60°</td>
<td>1</td>
<td>B</td>
<td>Lower 1</td>
</tr>
<tr>
<td>Blue</td>
<td>1 &gt;60°</td>
<td>&gt;50°</td>
<td>1</td>
<td>B</td>
<td>Lower 3</td>
</tr>
<tr>
<td>White</td>
<td>1 &gt;70°</td>
<td>&gt;50°</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### MPS1200U

<table>
<thead>
<tr>
<th>Color</th>
<th>J845 Coverage (MPS1200U)</th>
<th>J845 Coverage (MPS1220U)</th>
<th>J595 Class</th>
<th>CA T13 Class</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>1 ≥80°</td>
<td>≥70°</td>
<td>1</td>
<td>B</td>
<td>Lower 1</td>
</tr>
<tr>
<td>Red</td>
<td>1 ≥80°</td>
<td>≥70°</td>
<td>1</td>
<td>B</td>
<td>Lower 1</td>
</tr>
<tr>
<td>Blue</td>
<td>1 ≥70°</td>
<td>≥65°</td>
<td>1</td>
<td>B</td>
<td>N/A</td>
</tr>
<tr>
<td>White</td>
<td>1 ≥80°</td>
<td>≥65°</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: Not all flash patterns meet specifications.
### SPECIFICATIONS

#### Voltage

<table>
<thead>
<tr>
<th>Specifications</th>
<th>MPS300U</th>
<th>MPS600U / MPS620U</th>
<th>MPS1200U / MPS1220U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>12-24 VDC</td>
<td>12-24 VDC</td>
<td>12-24 VDC</td>
</tr>
</tbody>
</table>

#### Current Draw

<table>
<thead>
<tr>
<th>Specifications</th>
<th>MPS300U</th>
<th>MPS600U / MPS620U</th>
<th>MPS1200U / MPS1220U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Draw</td>
<td>0.2 Amps at 12 VDC</td>
<td>0.79 Amps at 12 VDC</td>
<td>1.51 Amps at 12 VDC</td>
</tr>
<tr>
<td></td>
<td>0.11 Amps at 24 VDC</td>
<td>0.45 Amps at 24 VDC</td>
<td>0.86 Amps at 24 VDC</td>
</tr>
</tbody>
</table>

#### Operating temp

<table>
<thead>
<tr>
<th>Specifications</th>
<th>MPS300U</th>
<th>MPS600U / MPS620U</th>
<th>MPS1200U / MPS1220U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temp</td>
<td>-40°C to 80°C</td>
<td>-40°C to 80°C</td>
<td>-40°C to 80°C</td>
</tr>
</tbody>
</table>

#### Physical Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>MPS300U</th>
<th>MPS600U / MPS620U</th>
<th>MPS1200U / MPS1220U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1.08 in (2.7 cm)</td>
<td>1.26 in (3.2 cm)</td>
<td>1.91 in (4.83 cm)</td>
</tr>
<tr>
<td>Length</td>
<td>3.38 in (8.6 cm)</td>
<td>5.2 in (13.26 cm)</td>
<td>5.25 in (13.34 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>0.43 in (1.09 cm)</td>
<td>0.37 in (0.94 cm)</td>
<td>0.45 in (1.14 cm)</td>
</tr>
</tbody>
</table>

#### Ship Weight

<table>
<thead>
<tr>
<th>Specifications</th>
<th>MPS300U</th>
<th>MPS600U / MPS620U</th>
<th>MPS1200U / MPS1220U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship Weight</td>
<td>0.5 lbs (0.23 kg)</td>
<td>0.75 lbs (0.34 kg)</td>
<td>1.0 lbs (0.45 kg)</td>
</tr>
</tbody>
</table>
### Select Model

**MicroPulse Ultra 3, Surface Mount, 12-24 VDC, Clear Lens**
- MPS300U-A 3-LED light head, Amber
- MPS300U-B 3-LED light head, Blue
- MPS300U-R 3-LED light head, Red
- MPS300U-W 3-LED light head, White

**MicroPulse Ultra 6, Split Color, Surface Mount, 12-24 VDC, Clear Lens**
- MPS600U-AA 6-LED light head, (6) Amber
- MPS600U-BB 6-LED light head, (6) Blue
- MPS600U-RR 6-LED light head, (6) Red
- MPS600U-WW 6-LED light head, (6) White
- MPS600U-BA 6-LED light head, (3) White / (3) Amber
- MPS600U-BR 6-LED light head, (3) White / (3) Red
- MPS600U-BW 6-LED light head, (3) Blue / (3) White
- MPS600U-BR 6-LED light head, (3) Blue / (3) Red
- MPS600U-RW 6-LED light head, (3) Red / (3) White
- MPS600U-RA 6-LED light head, (3) Red / (3) Amber

**MicroPulse Ultra 6, Dual Color, Surface Mount, 12-24 VDC, Clear Lens**
- MPS620U-BA 12-LED light head, (12) Blue / (12) Amber
- MPS620U-BR 12-LED light head, (12) Blue / (12) Red
- MPS620U-BW 12-LED light head, (12) Blue / (12) White
- MPS620U-RA 12-LED light head, (12) Red / (12) Amber
- MPS620U-RW 12-LED light head, (12) Red / (12) White
- MPS620U-WA 12-LED light head, (12) White / (12) Amber

### MicroPulse Ultra 12, Split Color, Surface Mount, 12-24 VDC, Clear Lens
- MPS1200U-AA 12-LED light head, (12) Amber
- MPS1200U-BB 12-LED light head, (12) Blue
- MPS1200U-RR 12-LED light head, (12) Red
- MPS1200U-BR 12-LED light head, (6) Blue / (6) Red
- MPS1200U-BW 12-LED light head, (6) Blue / (6) White
- MPS1200U-RW 12-LED light head, (6) Red / (6) White
- MPS1200U-RA 12-LED light head, (6) Red / (6) Amber
- MPS1200U-BW 12-LED light head, (6) Blue / (6) White
- MPS1200U-RW 12-LED light head, (6) Red / (6) White
- MPS1200U-RA 12-LED light head, (6) Red / (6) Amber
- MPS1200U-WA 12-LED light head, (6) White / (6) Amber

### MicroPulse Ultra 12, Dual Color, Surface Mount, 12-24 VDC, Clear Lens
- MPS1220U-BA 12-LED light head, (12) Blue / (12) Amber
- MPS1220U-BR 12-LED light head, (12) Blue / (12) Red
- MPS1220U-BW 12-LED light head, (12) Blue / (12) White
- MPS1220U-RA 12-LED light head, (12) Red / (12) Amber
- MPS1220U-WA 12-LED light head, (12) White / (12) Amber

### Accessories
- MPSUM3-1 Chrome bezel for (1) MicroPulse Ultra 3 Series light head
- MPSUM3-2 White bezel for (1) MicroPulse Ultra 3 Series light head
- MPSUM6-1 Chrome bezel for (1) MicroPulse Ultra 6 Series light head
- MPSUM6-2 White bezel for (1) MicroPulse Ultra 6 Series light head
- MPSUM12-1 Chrome bezel for (1) MicroPulse Ultra 12 Series light head
- MPSUM12-2 Chrome bezel for (1) MicroPulse Ultra 12 Series light head