



## ► MicroPulse® Ultra I External Mount/Perimeter Lights

### FEATURES

- Superior warning with high-powered LEDs
- Low-profile design offers wider range of mounting locations
- (25) Selectable flash patterns
- SpectraLux® multicolor LED technology in combinations of Amber, Blue, Green, Red and White
- FSLink® allows for synchronization across multiple products
- FSJoin™ enables the synchronization and programming of light bars and exterior/interior lights that works in conjunction with the Pathfinder® Siren
- 12/24 Vdc
- Suitable for external and/or internal mounting applications
- Includes Black bezel and gasket, optional bezels available in Chrome or White
- Single/multi-unit synchronization
- Designed and assembled in University Park, IL USA
- Five-year warranty

### APPROVALS

- All models are IP67 rated, moisture and dust proof
- SAE J845, Class 1 (Amber, Blue, Green, Red, and White)
- NFPA\*
- CCR Title 13\*
- GSA KKK-A-1822\*
- R65\*

\*Flash patterns meeting these specs are noted in the instruction manual

### 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 light head can be programmed to operate as a single unit or in synchronization with multiple light heads. Built-in flash patterns enable multiple vehicle perimeter lights to be either synchronized in the same pattern or in opposite sequence.



MicroPulse Ultra is only 0.4-inches thick

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

The MicroPulse® Ultra lens is made of US 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 five-year warranty.

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

Suitable for external and/or internal mounting applications, the MicroPulse Ultra comes in many colors, including Amber, Blue, Green, Red and White, in single-, dual-, and tri-color combinations. Models come standard with a Black bezel and are also available with an optional Chrome or White bezel.

**FSJoin™ Compatible**

MicroPulse Ultra models are FSJoin compatible. FSJoin is a programming compatibility feature of Federal Signal’s light bars and exterior/interior warning lights that work in conjunction with the Pathfinder light/siren controller. The combination of FSJoin warning lights and the Pathfinder siren allows the Pathfinder to control lights around the vehicle by utilizing flash patterns in the siren, syncing/alternating light heads, and dimming light heads. FSJoin compatible products can be programmed through the Convergence Network Configuration Software, simplifying the programming of multiple warning lights and light bars.

**Compatibility with Older MicroPulse Ultra Models**

- New MicroPulse Ultra models will not synchronize with older MicroPulse Ultra models.
- New MicroPulse Ultra models will synchronize with existing X Series models. This includes MicroPulse Ultra X Series, MicroPulse Wide Angle X Series, 416300 X Series, and 416900/416910 X Series models

**Wiring Diagram**

FSLink products feature (5) programming wires. Wire functions are consistent across all FSLink products allowing for ease of programming.

**FSLink Compatible**

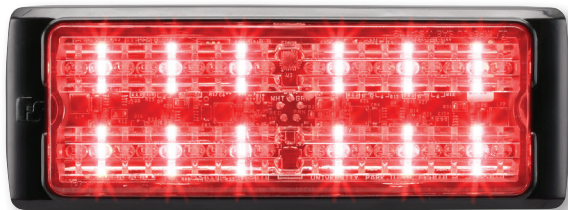
MicroPulse Ultra models feature FSLink, a built-in software technology that incorporates a shared set of flash patterns within Federal Signal’s LED perimeter lights, interior lights, and beacons. This shared flash pattern software allows the various products to be wired together, set in a common pattern and then synchronized together to flash simultaneously or alternately.



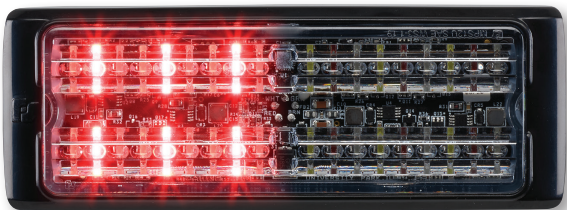
Wire	Internal Flasher Mode
Red	To +Vdc for Mode 1
White	To +Vdc for Mode 2
Brown	To +Vdc for Mode 3
Green	+Vdc for programming sync/FSLink
Black	To Chassis Ground

Programming Features

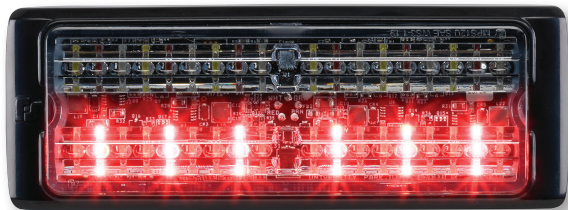
- (3) Programming modes
- (3) Brightness setting (full, dim, and cruise)
- FSLink compatibility to sync products simultaneously or alternately
- Flash color select
  - o MPS3U can operate as a single- or dual-color light
  - o MPS6U/MPS12U can operate as a single-, dual-, or tri-color light
- Color order select
- Split flash select
  - o MPS3U = full flash
  - o MPS6U = full flash and left/right
  - o MPS12U = full flash, left/right, top/down, and criss-cross



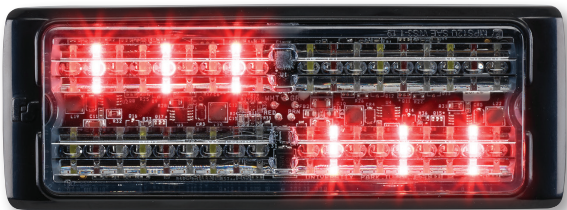
MPS123U full flash



MPS123U left/right



MPS123U top-down



MPS123U criss-cross

SPECIFICATIONS

Specifications			
	MPS32U	MPS63U	MPS123U
Voltage	12/24 Vdc	12/24 Vdc	12/24 Vdc
Current Draw	12.8 of 25.6 Vdc	12.8 of 25.6 Vdc	12.8 of 25.6 Vdc
Fuse	2.0 A	2.0 A	2.0 A
Operating Temperature	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C
Physical Specifications			
Length	3.5 in (8.8 cm)	5.2 in (13.2 cm)	5.3 in (13.5 cm)
Width	0.4 in (1.0 cm)	0.4 in (1.0 cm)	0.4 in (1.0 cm)
Height	1.3 in (3.3 cm)	1.3 in (3.3 cm)	1.9 in (4.8 cm)
Ship Weight			
	0.10 lb (0.5 kg)	0.13 lb (0.06 kg)	0.12 lb (0.05 kg)

Model #	Description
<b>MicroPulse Ultra 3, Single-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS31U-A	3-LED light head, Amber
MPS31U-B	3-LED light head, Blue
MPS31U-R	3-LED light head, Red
MPS31U-W	3-LED light head, White
<b>MicroPulse Ultra 3, Dual-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS32U-RB	6-LED light head, Red/Blue
MPS32U-BW	6-LED light head, Blue/White
MPS32U-AW	6-LED light head, Amber/White
MPS32U-RW	6-LED light head, Red/White
MPS32U-BA	6-LED light head, Blue/Amber
MPS32U-RA	6-LED light head, Red/Amber
MPS32U-AG	6-LED light head, Amber/Green
<b>MicroPulse Ultra 6, Single-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS61U-A	6-LED light head, Amber
MPS61U-B	6-LED light head, Blue
MPS61U-R	6-LED light head, Red
MPS61U-W	6-LED light head, White
<b>MicroPulse Ultra 6, Dual-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS62U-AW	12-LED light head, Amber/White
MPS62U-RB	12-LED light head, Red/Blue
MPS62U-BA	12-LED light head, Blue/Amber
MPS62U-BW	12-LED light head, Blue/White
MPS62U-RW	12-LED light head, Red/White
<b>MicroPulse Ultra 6, Tri-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS63U-RBW	18-LED light head, Red/Blue/White
MPS63U-BAW	18-LED light head, Blue/Amber/White
MPS63U-RBA	18-LED light head Red/Blue/Amber
MPS63U-RAW	18-LED light head, Red/Amber/White
MPS63U-AGW	18-LED light head, Amber/Green/White

Model #	Description
<b>MicroPulse Ultra 12, Single-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS121U-A	12-LED light head, Amber
MPS121U-R	12-LED light head, Red
<b>MicroPulse Ultra 12, Dual-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS122U-BW	24-LED light head, Blue/White
MPS122U-AW	24-LED light head, Amber/White
MPS122U-RW	24-LED light head, Red/White
MPS122U-RB	24-LED light head, Red/Blue
<b>MicroPulse Ultra 12, Tri-Color, Surface Mount, 12/24 Vdc, Clear Lens</b>	
MPS123U-RBW	36-LED light head, Red/Blue/White
MPS123U-BAW	36-LED light head, Blue/Amber/White
MPS123U-RAW	36-LED light head, Red/Amber/White
MPS123U-AGW	36-LED light head, Amber/Green/White
<b>Accessories</b>	
MPSUMB3-1	Chrome bezel for (1) MicroPulse Ultra 3
MPSUMB3-2	White bezel for (1) MicroPulse Ultra 3
MPSUMB6-1	Chrome bezel for (1) MicroPulse Ultra 6
MPSUMB6-2	White bezel for (1) MicroPulse Ultra 6
MPSUMB12-1	Chrome bezel for (1) MicroPulse Ultra 12
MPSUMB12-2	White bezel for (1) MicroPulse Ultra 12



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