

# MicroPulse® Ultra

## Exterior Mount/Perimeter Lights

### FEATURES

- Ultra low-profile, surface mount perimeter light offered in three sizes
- Single-, dual-, and tri-color models available
- [25] selectable flash patterns
- Clear and Smoked lens models available
- Single/multi-unit synchronization
- Includes Black bezel and gasket, optional bezels available in Chrome or White
- Designed and assembled in University Park, IL USA
- 12/24 Vdc
- Five-year warranty

### APPROVALS

- SAE J595 Class 1 (Amber, Blue, Red, White)
- SAE J845, Class 1 (Amber, Blue, Red, White)\*
- NFPA 1901\*\*
- CCR Title 13\*\*
- GSA KKK-A-1822\*\*
- R65\*\*
- IP67

\*SAE J845 for smoked lens models are Class 2 (Blue, Red, and White)

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

### FS TECHNOLOGIES



#### Highly Effective, Ultra Slim Warning Light

MicroPulse® Ultra models have a low-profile design that offers a broader range of mounting options suitable for external and internal mounting applications. The advanced high-output LED light head can be programmed to operate as a single unit or synchronize with multiple light heads. Built-in flash patterns enable multiple vehicle perimeter lights to be either synchronized in the same pattern or opposite sequence.



MicroPulse Ultra is only 0.4-inches thick

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

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

MicroPulse Ultra is available in single-, dual-, and tri-color combinations of Amber, Blue, Green, Red, and White. Models are standard with a Black bezel or available with a Chrome or White bezel, sold separately.

MicroPulse Ultra lights are available with either a Clear lens or a Smoked lens for a more low-profile operation. An adhesive mount kit (sold separately) allows for interior window mounting of a MicroPulse Ultra 6 light head in various positions.



MPS6U Smoked Lens Model



MPS6U light installed in MPS6U-WIN adhesive mount kit

#### 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 a Convergence Network siren or controller. When using FSJoin products, the Convergence Network siren/light controller controls all of the vehicle's warning light flash patterns, dimming feature, and light head syncing/altering patterns.

Simplify programming of multiple FSJoin warning lights and light bars with FS Convergence Network Configuration Software.

### 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, mini-light bars, 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.

### Wiring Diagram

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



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 settings (full, dim, and cruise)
- Flash color select
  - MPS3U can operate as a single- or dual-color light
  - MPS6U/MPS12U can operate as a single-, dual-, or tri-color light
- Color order select
- Split flash select
  - MPS3U = full flash
  - MPS6U = full flash and left/right
  - MPS12U = full flash, left/right, top/down, and criss-cross



MPS123U full flash



MPS123U left/right



MPS123U top-down



MPS123U criss-cross

**SPECIFICATIONS**

	MPS3U	MPS6U	MPS12U
<b>VOLTAGE</b>		12/24 Vdc	
<b>CURRENT DRAW @12 VDC</b>	0.4 A	0.8 A	1.5 A
<b>CURRENT DRAW @24 VDC, 50% FLASH RATE</b>	0.2 A	0.4 A	0.8 A
<b>OPERATING TEMP.</b>	-40° to +176°F (-40° to +80°C)		
<b>PHYSICAL SPECIFICATIONS</b>			
<b>LENGTH</b>	3.5 in (8.8 cm)	5.2 in (13.2 cm)	5.3 in (13.5 cm)
<b>WIDTH</b>	0.4 in (1.0 cm)	0.4 in (1.0 cm)	0.4 in (1.0 cm)
<b>HEIGHT</b>	1.3 in (3.3 cm)	1.3 in (3.3 cm)	1.9 in (4.8 cm)
<b>SHIP WEIGHT</b>			
	0.1 lb (0.5 kg)	0.1 lb (0.1 kg)	0.2 lb (0.1 kg)

**HOW TO ORDER**
**LED Color**
A
B
G
R
W
**Lens Color**
C
S
**MICROPULSE ULTRA 3, SINGLE-COLOR, CLEAR LENS**

MPS31U-A	3-LED light head, Amber
MPS31U-B	3-LED light head, Blue
MPS31U-G	3-LED light head, Green
MPS31U-R	3-LED light head, Red
MPS31U-W	3-LED light head, White

**MICROPULSE ULTRA 3, DUAL-COLOR, CLEAR LENS**

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

**MICROPULSE ULTRA 3, DUAL-COLOR, STEADY BURN, SMOKED LENS**

MPS32UX-RB-SMK	6-LED light head, Red/Blue
MPS32UX-BW-SMK	6-LED light head, Blue/White
MPS32UX-RW-SMK	6-LED light head, Red/White

**MICROPULSE ULTRA 6, SINGLE-COLOR, CLEAR LENS**

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

**MICROPULSE ULTRA 6, DUAL-COLOR, CLEAR LENS**

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

**MICROPULSE ULTRA 6, TRI-COLOR, CLEAR LENS**

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
MPS63U-RGA	18-LED light head, Red/Green/Amber

**MICROPULSE ULTRA 6, TRI-COLOR, STEADY BURN, SMOKED LENS**

MPS63UX-RBW-SMK 18-LED light head, Red/Blue/White

**MICROPULSE ULTRA 6, TRI-COLOR, CLEAR LENS, 8-FT, (243.8 CM) CABLE**

MPS63U-8FT-RBW 18-LED light head, Red/Blue/White

**MICROPULSE ULTRA 12, SINGLE-COLOR, CLEAR LENS**

MPS121U-A	12-LED light head, Amber
MPS121U-R	12-LED light head, Red

**MICROPULSE ULTRA 12, DUAL-COLOR, CLEAR LENS**

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

**MICROPULSE ULTRA 12, TRI-COLOR, CLEAR LENS**

MPS123U-RBW	36-LED light head, Red/Blue/White
MPS123U-BAW	36-LED light head, Blue/Amber/White
MPS123U-RBA	36-LED light head, Red/Blue/Amber
MPS123U-RAW	36-LED light head, Red/Amber/White
MPS123U-AGW	36-LED light head, Amber/Green/White

**MICROPULSE ULTRA 12, TRI-COLOR, STEADY BURN, SMOKED LENS**

MPS123UX-RBW-SMK 36-LED light head, Red/Blue/White

**ACCESSORIES**

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

## MICROPULSE ULTRA BRACKETS AND KITS

<b>MICROPULSE ULTRA 3</b>		<b>SPOILER</b>	
<b>MPSM3-DL</b>	Generic L-bracket for (2) MPS3U lights, side-by-side	<b>MPS6U-SIL19RS6</b>	Pair of spoiler brackets, each bracket holds (3) MPS6U lights, Chevrolet Silverado 2019-2023
<b>MPSM3-DS</b>	Generic L-bracket for (2) MPS3U lights, stacked	<b>MPSM6-DU22RS</b>	Spoiler bracket kit for (6) MPS6U lights, Dodge Durango, 2015-2023
<b>MPSM3-LB</b>	Generic L-bracket for (1) MPS3U light	<b>MPSM6-FPIU20RS1</b>	Pair of spoiler brackets, each bracket holds (1) MPS6U light, Ford Police Interceptor Utility 2020-2024
<b>MPSM3-SB</b>	Swivel mount bracket for (1) MPS3U light	<b>MPSM6-FPIU20RS2</b>	Pair of spoiler brackets, each bracket holds (3) MPS6U lights, Ford Police Interceptor Utility, 2020-2024
<b>MPSM3UC-SPACRKT</b>	Kit of four 5-degree rubber mounting wedges for use with MPS3U lights	<b>MPSM6-FPIU20RS3</b>	Pair of spoiler brackets, each bracket holds (2) MPS6U lights, Ford Police Interceptor Utility, 2020-2024
<b>MICROPULSE ULTRA 6</b>		<b>MPSM6-TA21RS</b>	Pair of spoiler brackets, each bracket holds (3) MPS6U lights, Chevrolet Tahoe, 2021-2024
<b>MPSM6-DL</b>	Generic L-bracket for (2) MPS6U lights, side-by-side	<b>MPSM6-TA21RS1</b>	Pair of spoiler brackets, each bracket holds (1) MPS6U light, Chevrolet Tahoe, 2021-2024
<b>MPSM6-DS</b>	Generic L-bracket for (2) MPS6U lights, stacked	<b>MPSM6U-EXP22RS6</b>	Pair of spoiler brackets, each bracket holds (3) MPS6U lights, Ford Expedition 2022-2024
<b>MPSM6-LB</b>	Generic L-bracket for (1) MPS6U light	<b>B-PILLAR</b>	
<b>MPSM6-SB</b>	Swivel mount bracket for (1) MPS6U light	<b>MPSM6U-BP1</b>	Pair of B-pillar brackets, each bracket holds (1) MPS6U light, Dodge Charger, 2011-2024
<b>MPSM6U-FPIU20SMW</b>	Kit of (2) 20-degree rubber mounting wedges, each wedge mounts (1) MPS6U light to each side mirror arm, Ford Police Interceptor Utility, 2020-2024	<b>MPSM6U-BP2</b>	Pair of B-pillar brackets, each bracket holds (1) MPS6U light, Chevrolet Tahoe, 2021-2022 and Ford Police Interceptor Utility, 2020-2024
<b>MPSM6U-FPIU20WW</b>	Kit of (4) rubber mounting wedges, each wedge mounts (1) MPS6U light to each of the wheel arch moldings, Ford Police Interceptor Utility, 2020-2024	<b>FOG LIGHT AREA</b>	
<b>MPSM6U-SPACRKT</b>	Kit of (4) 5-degree rubber mounting wedges for use with MPS6U lights	<b>MPS6U-FPIU20FOG</b>	Pair of fog light brackets, each bracket holds (1) MPS3U/MPS6U light, Ford Police Interceptor Utility, 2020-2024
<b>MPSM6U-WIN</b>	Kit of adhesive mount shrouds in 90-, 67-, 46-, and 30-degrees for (1) MPS6U light		
<b>MPSM12U-WIN</b>	Kit of adhesive mount shrouds in 90-, 67-, 46-, and 30-degrees for (1) MPS12U light		
<b>MICROPULSE ULTRA 12</b>			
<b>MPSM12-DL</b>	Generic L-bracket for (2) MPS12U lights, side-by-side		
<b>MPSM12-DS</b>	Generic L-bracket for (2) MPS12U lights, stacked		
<b>MPSM12-LB</b>	Generic L-bracket for (1) MPS12U light		
<b>MPSM12-SB</b>	Swivel mount bracket for (1) MPS12U light		
<b>MPSM12U-SPACRKT</b>	Kit of (4) 5-degree rubber mounting wedges for use with MPS12U lights		
<b>MPSUMA12-1</b>	40-degree angled bezel for (1) MPS12U light, Chrome		
<b>MPSUMA12-3</b>	40-degree angled bezel for (1) MPS12U light, Black		

## MICROPULSE ULTRA BRACKETS AND KITS

### RUNNING BOARD

<b>MPSM6-FRD15RB</b>	Kit of (6) running board brackets, each bracket holds (1) MPS6U light, F-150/Ford F-150 Responder, 2015-2023 (will work on XL and XLT trim levels with OEM running boards)
<b>MPSM6U-FD15UPRB</b>	Kit of (6) upper running board brackets, each bracket holds (1) MPS6U light, Ford F-150/Ford F-150 Responder, 2015-2023 (will work on XL and XLT trim levels with OEM running boards)

### LICENSE PLATE

<b>IPX-LPH1</b>	Horizontal license plate bracket, mounts (2) MPS3U lights, fits most vehicles
<b>IPX-LPV1</b>	Vertical, flat surface license plate bracket, mounts (2) MPS3U lights, fits vehicles without a recessed license plate
<b>IPX-LPV2</b>	Vertical, adjustable license plate bracket, mounts (2) MPS3U/MPS6U/MPS12U lights, fits most vehicles
<b>IPX-LPVX1</b>	Vertical, extended license plate bracket, mounts (2) MPS3U lights, fits vehicles with a recessed license plate
<b>MPSM-LPH1</b>	Horizontal license plate bracket, mounts (2) MPS3U/MPS6U/MPSC lights, fits most vehicles
<b>MPSM6-LPH1</b>	Horizontal license plate bracket, mounts (2) MPS6U, MPS12U, MPSW9 lights, fits most vehicles
<b>MPSM6-LPV3-DUR</b>	Vertical, adjustable, license plate bracket, mounts (2) MPS6U lights, fits most vehicles
<b>MPSM6-LPV1</b>	Vertical, adjustable license plate bracket, mounts (4) MPS6U lights, fits most vehicles

### GRILLE

<b>IPX-GRL8</b>	Pair of grille brackets for horizontal mount orientation, each bracket holds (1) MPS3U/MPS6U/MPS12U light, Dodge Charger, 2015-2024, without Rumbler® installation
<b>IPX-GRL14</b>	Pair of drill-less grille brackets for horizontal mount orientation, each bracket holds (1) MPS3U/MPS6U light, Ford F-150/Ford F-150 Responder, 2018-2023 (will work on lower end trim level grilles on XL and XLT models)
<b>IPX-GRL16</b>	Drill-less grille bracket for horizontal mount orientation, bracket holds (2) MPS3U/MPS6U/MPS12U lights, Ford Police Interceptor Utility, 2020-2024
<b>IPX-GRL17</b>	Pair of lower grille brackets for horizontal mount orientation, each bracket holds (2) MPS3U/MPS6U lights, Ford Police Interceptor Utility, 2020-2024
<b>MPSM6-GRL1</b>	Pair of grille brackets, each bracket holds (1) MPS3U/MPS6U light, fits vehicles with a mesh grille
<b>MPSM6-GRL2</b>	Pair of grille brackets, each bracket holds (1) MPS6U light behind grille, Chevrolet Tahoe, 2021-2024
<b>MPSM6-GRL3</b>	Pair of grille brackets, each bracket holds (2) MPS6U lights outside of grille on each side of the bowtie, Chevrolet Tahoe, 2021-2024
<b>MPSM6U-FPIU20GCO</b>	Kit of two grille cut-out brackets, adapts (2) MPS6U lights to OEM grill cut-outs, Ford Police Interceptor Utility, 2020-2024

### TAILLIGHT

<b>MPSM12U-FRD23DTL</b>	Pair of drill-less taillight brackets for vertical orientation, each bracket holds (1) MPS6U/MPS12U light, Ford F-150, 2023
<b>MPSM12U-FRD23DTL2</b>	Pair of drill-less taillight brackets for vertical orientation, each bracket holds (1) MPS6U/MPS12U light and (1) MPS3U/MPS6U light, Ford F-150, 2023



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