

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 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 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
VOLTAGE		12/24 Vdc	
CURRENT DRAW @12 VDC	0.4 A	0.8 A	1.5 A
CURRENT DRAW @24 VDC, 50% FLASH RATE	0.2 A	0.4 A	0.8 A
OPERATING TEMP.	-40° to +176°F (-40° 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			
	0.1 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

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

MICROPULSE ULTRA BRACKETS AND KITS

RUNNING BOARD

MPSM6-FRD15RB	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)
MPSM6U-FD15UPRB	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

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

GRILLE

IPX-GRL8	Pair of grille brackets for horizontal mount orientation, each bracket holds (1) MPS3U/MPS6U/MPS12U light, Dodge Charger, 2015-2024, without Rumbler® installation
IPX-GRL14	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)
IPX-GRL16	Drill-less grille bracket for horizontal mount orientation, bracket holds (2) MPS3U/MPS6U/MPS12U lights, Ford Police Interceptor Utility, 2020-2024
IPX-GRL17	Pair of lower grille brackets for horizontal mount orientation, each bracket holds (2) MPS3U/MPS6U lights, Ford Police Interceptor Utility, 2020-2024
MPSM6-GRL1	Pair of grille brackets, each bracket holds (1) MPS3U/MPS6U light, fits vehicles with a mesh grille
MPSM6-GRL2	Pair of grille brackets, each bracket holds (1) MPS6U light behind grille, Chevrolet Tahoe, 2021-2024
MPSM6-GRL3	Pair of grille brackets, each bracket holds (2) MPS6U lights outside of grille on each side of the bowtie, Chevrolet Tahoe, 2021-2024
MPSM6U-FPIU20GCO	Kit of two grille cut-out brackets, adapts (2) MPS6U lights to OEM grill cut-outs, Ford Police Interceptor Utility, 2020-2024

TAILLIGHT

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