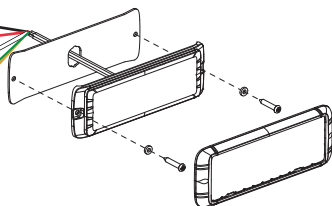


**FEDERAL SIGNAL****MicroPulse 1220 Ultra Dual Color**
25500295 Rev. A1 02162645 Federal Signal Drive
University Park, IL
60484-3167**⚠ WARNING**

To properly install this light, you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment. Before installing this light, refer to the unabridged instructions for it (doc. no. 25500119), which are available online at www.fedsig.com. Print the online document and provide copies to the end users of this light, and to the personnel who will service this light.

Surface Mounting and WiringTo -Chassis Ground.....**BLACK**To +VDC to activate Memory1.....**RED**To +VDC to activate Memory2.....**WHITE**
(Memory2 has a higher priority and overrides Memory1 when activated.)To +VDC for Low Power operation...**GREEN**For synchronization of flash patterns...**YELLOW**Connect **YELLOW** wires of multiple units together for synchronization. (All units must be set up correctly and be at the same pattern upon powerup.)**Selecting a Flash Pattern**

To select a pattern for each memory, momentarily apply +VDC to the **YELLOW** wire while Memory1 or Memory2 is activated:

- once for next pattern
- quickly three times for reset to default*

***NOTE:** The default flash pattern for Memory1 and Memory2

FP#	Flash Patterns
1	Single 122 FPM
2	Single 90 FPM
3	Single 113 FPM
4	Triple Flash (2.04 Hz)
5	Triple Flash (1.25 Hz)
6	Double (R65)
7	Quad (2 Hz)
8	Random
9	Steady
10	Single
11	Mega
12	Double
13	Quad
14	Quint
15	Ultra
16	Single-Quad
17	Single-H/L
18	Single-Triple-Quint

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Color Mode Selection

1. To select Color Mode for each memory while either Memory1 or Memory2 is activated, apply +VDC to **YELLOW** wire for 3 seconds to enter Color Mode Selection.
2. Once in Color Mode Selection, lighthouse will pulse in dim short (single, double or triple) flashes:
 - Single flash = Color1
 - Double flash = Color2
 - Triple flash = Color1 alternating Color2
3. Remove **YELLOW** wire from +VDC and momentarily apply to +VDC to change Color Mode.
4. Once the desired Color Mode is selected, power off or apply +VDC to **YELLOW** wire for 3 seconds to save and exit Color Mode Selection.

Multi-Unit Synchronization

Each unit contains 3 different Grouping Modes:

❶ MASTER (default), ❷ SLAVE-SYNC, and ❸ SLAVE-ALT.

If synchronized flashing is not needed, simply select the desired flash pattern.

For synchronized flashing, one unit should be set to ❶ MASTER mode, while all other units must set to ❷ SLAVE-SYNC or ❸ SLAVE-ALT mode:

1. Enter GROUPING MODE SELECTION by:
Applying +VDC to **RED**, **WHITE** and **YELLOW** wires simultaneously.
Once in GROUPING MODE SELECTION, unit will steady-burn in low-power and pulse in high-power:
 - Single pulse = ❶ MASTER (default)
 - Double pulse = ❷ SLAVE-SYNC
 - Triple pulse = ❸ SLAVE-ALT
2. Remove **YELLOW** wire from +VDC and momentarily apply to +VDC to change MODE.
 - ❷ SLAVE-SYNC units flash simultaneously with the ❶ MASTER unit.
 - ❸ SLAVE-ALT units flash alternately with the ❶ MASTER unit and all other ❷ SLAVE-SYNC units.
5. Once the desired Grouping Mode is selected, power off or apply +VDC to **YELLOW** wire for 3 seconds to save and exit Grouping Mode Selection.

NOTE: If no MASTER unit were present, all SLAVE units will flash initially, and steady burn for 2 seconds to detect any synchronization signal. The installer/user may also use this to easily pick out SLAVE vs. MASTER units.

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