

# Literature APPLICATION Guide

## Panel Lights



### KEY FEATURES:

- State-of-the-Art Brilliant LED's
- 6mm to 22mm Sizes Available
- 2 Volts up to 380 Volts
- Red, Green, Yellow, Blue, or White Color Options
- Snap-in or Nut Mounting Options
- Various Termination Options: Wires with Connector, Bare Wires, PC Pins, Quick Connect, or Solder Lugs
- Various Body Styles (IP-50 to IP-65)
- CUL Approved Models Available

### SPECIFICATIONS:

**Panel Hole Sizes:** 6mm, 8mm, 10mm, 12mm, 12.5mm, 16mm, or 22mm

**Lens Color:** Same as LED Color

**LED Colors:** Red, Green, Yellow, Blue  
White

**Rated Voltage:** 2V, 3V, 6V, 12V, 24V, 36V, 48V, 110V, 220V, or 380V

**LED Current:** 15 - 20 mA Max (see data sheet)

**Mounting Options:** Snap-in or Threads & Nut (see data sheet)

**Termination:** Wires with Connector; Bare Wires, PC Pins, Solder Lugs, Screws, or Flat Blades (see data sheet)

**IP Ratings:** IP-50 to IP-65 (see data sheet)

## Part Number Structure FL1M – 6CW-2 – B 2V – MX

Series \_\_\_\_\_

**FL1M** or **FL1P**

Housing Style \_\_\_\_\_

See Below for Housing Style Characteristics

Color: \_\_\_\_\_

**B** = Blue; **G** = Green; **R** = Red; **W** = White; **Y** = Yellow/Amber

Rated Voltage \_\_\_\_\_

**2V** = 2 Volts; **3V** = 3 Volts; **6V** = 6 Volts; **12V** = 12 Volts; **24V** = 24 Volts  
**48V** = 48 Volts; **110V** = 110 Volts; **220V** = 220 Volts; **380V** = 380 Volts

Molex Connector for Models with Wires \_\_\_\_\_

**MX** = Molex Micro-Fit 3.0 Connector Model No. 43025-0200

Notes:

- Blue, Green, & White models are not available in 2V ratings.
- FL1M-6CJ-1 models are only available 48 Volts and less.
- FL1M-6CJ-1, FL1M-6CW-2, & FL1M-8CW-4 models are rated DC Only. All other models are rated AC/DC.
- Body styles which are available with the Molex connector include:  
FL1M-6CW-2; FL1M-6FW-1; FL1M-6SW-1; FL1P-6QW-1; FL1P-6QW-2;  
FL1M-8CW-4; FL1M-8FW-1; FL1M-8SW-1; FL1P-8NW-1; FL1P-8QW-1;  
FL1P-8QW-2; FL1P-10NW-1; FL1P-10NW-4; FL1P-10QW-1 FL1P-12QW-1;  
FL1P-12QW-2
- For models with the Molex connector, use mating connector P/N 43020-0201
- For models with mounting holes of 10 mm or less that have the Molex connector, the plastic connector housing is purposefully separate from the wires and inside the plastic part bag. After the panel light is assembled to the panel, push the terminals located on the end of the wires fully into the plastic connector housing per the directions on the specification. If the model has polarity, it will be important to insert the wires exactly per the specification. If the model does not have polarity, then the wire orientation is not critical.

## UL and CUL Approved Models:

- FL1M-8FJ-2 Models- all colors and voltages
- FL1M-10QW-1 Models- all colors and voltages
- FL1M-8FW-1 Models- all colors and 110V and 220V voltages

## Panel Light Characteristics

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1M-6CJ-1	6 mm	Threads & Nut	Convex	PC Pins	DC	IP-65	No
FL1M-6CW-2		Threads & Nut	Convex	Wires-24 AWG or Connector	DC	IP-65	No
FL1M-6FW-1		Threads & Nut	Flat	Wires-24 AWG or Connector	AC/DC	IP-65	No
FL1M-6SW-1		Threads & Nut	Rounded	Wires-24 AWG or Connector	AC/DC	IP-65	No
FL1P-6QW-1		Snap-in	Flat	Wires-24 AWG or Connector	AC/DC	IP-50	No
FL1P-6QW-2		Snap-in	Rounded	Wires-24 AWG or Connector	AC/DC	IP-50	No

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1M-8CJ-2	8 mm	Threads & Nut	Convex	Quick Connect	AC/DC	IP-65	No
FL1M-8CJ-3		Threads & Nut	Convex	PC Pins	AC/DC	IP-65	No
FL1M-8CW-4		Threads & Nut	Convex	Wires-22 AWG or Connector	DC	IP-65	No
FL1M-8FJ-2		Threads & Nut	Flat	PC Pins	AC/DC	IP-65	Yes
FL1M-8FW-1		Threads & Nut	Flat	Wires-22 AWG or Connector	AC/DC	IP-65	110V 220V
FL1M-8SJ-2		Threads & Nut	Rounded	Quick Connect	AC/DC	IP-65	No
FL1M-8SJ-3		Threads & Nut	Rounded	PC Pins	AC/DC	IP-65	No
FL1M-8SW-1		Threads & Nut	Rounded	Wires-22 AWG or Connector	AC/DC	IP-65	No
FL1P-8NJ-1		Threads & Nut	Rounded	Quick Connect	AC/DC	IP-65	No
FL1P-8NW-1		Threads & Nut	Rounded	Wires-22 AWG or Connector	AC/DC	IP-50	No
FL1P-8QJ-2		Snap-in	Rounded	Quick Connect	AC/DC	IP-50	No
FL1P-8QW-1		Snap-in	Flat	Wires-22 AWG or Connector	AC/DC	IP-50	No
FL1P-8QW-2		Snap-in	Rounded	Wires-22 AWG or Connector	AC/DC	IP-50	No

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1P-10NJ-4	10 mm	Threads & Nut	Flat	Quick Connect	AC/DC	IP-50	No
FL1P-10NW-1		Threads & Nut	Flat	Wires-22 AWG or Connector	AC/DC	IP-50	No
FL1P-10NW-4		Threads & Nut	Flat	Wires-22 AWG or Connector	AC/DC	IP-50	No
FL1P-10QJ-1		Snap-in	Rounded	Quick Connect	AC/DC	IP-50	No
FL1P-10QW-1		Snap-in	Rounded	Wires-22 AWG or Connector	AC/DC	IP-50	Yes

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1M-12CA-1	12 mm	Threads & Nut	Flat	Screws	AC/DC	IP-65	No
FL1M-12CJ-1		Threads & Nut	Convex	Quick Connect	AC/DC	IP-65	No
FL1M-12CW-1		Threads & Nut	Convex	Wires-18 AWG	AC/DC	IP-65	No
FL1M-12FW-1		Threads & Nut	Flat	Wires-18 AWG	AC/DC	IP-65	No
FL1M-12SJ-1		Threads & Nut	Rounded	Quick Connect	AC/DC	IP-65	No
FL1M-12SW-1		Threads & Nut	Rounded	Wires-18 AWG	AC/DC	IP-65	No
FL1P-12QJ-1		Snap-in	Rounded	Quick Connect	AC/DC	IP-50	No
FL1P-12NJ-1		Threads & Nut	Jut Out	Solder Lug	AC/DC	IP-50	No
FL1P-12QW-1		Snap-in	Rounded	Wires-22 AWG or Connector	AC/DC	IP-50	No

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1P-12QW-2	12.5 mm	Snap-in	Flat	Wires-22 AWG or Connector	AC/DC	IP-50	No

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1P-16NJ-1	16 mm	Threads & Nut	Jut Out	Solder Lug	AC/DC	IP-50	No

Housing Style	Panel Hole Dia (mm)	Snap-in or Thread & Nut	Front Shape	Termination	Volt Type	IP Rating	UL & CUL
FL1P-22NA-1	22 mm	Threads & Nut	Jut Out	Screws	AC/DC	IP-50	No

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