

# CHANNEL LIGHTS

## ZM-SERIES



ZM-1968-CW



ZM-6223-CW



ZM-3537-CW



ZM-4110-CW

ZM-1610-CW



ZM-8315-CW



ZM-189-CW

### ZM Series:

- ZM-1968-CW/-WW** 3 LED Module in Cool or Warm White
- ZM-3537-CW** Wide Beam + High Brightness
- ZM-8315-CW** IP67 Water Resistant
- ZM-189-CW** 3 LED Low profile Mini-Channel
- ZM-4110-CW** IP67 Water Resistant 3 LED Mini-Channel
- ZM-1610-CW** IP67 Water Resistant Single LED Mini-Channel
- ZM-6223-CW** Edge Light LED Sign Module

### Accessories:

- ZDM-01 Dimmer
  - ZPS-1220
  - ZPS-1225
  - ZPS-1235
  - ZPS-1260
  - ZPS-20
  - ZPS-2435
  - ZPS-2460
- } 12 Volt Power Supply
- } 24 Volt Power Supply

## APPLICATIONS

LED Channel Lights are most commonly used in illuminating signs, architectural accent lighting and in backlighting channel letters. They are well suited for both fluorescent and neon retrofitting.

## POWER & MAXIMUM LENGTH

The chart below shows specifications for the various Channel Lights offered by JKL. The maximum length given is for a single string of modules wired from the power source. JKL can provide sections of the ZM-series channel lights in specific segment lengths or with custom connectors for your project. Technical details and UL information can be found on the specification sheets for each product on our website: [www.jkllamps.com](http://www.jkllamps.com)

Part Number	Voltage	LEDs per Module	Modules per Reel	Lm/Watt	Max Length
<b>ZM-1968-CW</b>	12V	3	20	80	38 ft.
<b>ZM-1968-WW</b>	12V	3	20	65	38 ft.
<b>ZM-3537-CW</b>	12V	3	30	100	33 ft.
<b>ZM-8315-CW</b>	12V	3	20	108	11 ft.
<b>ZM-189-CW</b>	12V	3	20	92	9 ft.
<b>ZM-4110-CW</b>	12V	3	20	88	7.5 ft.
<b>ZM-1610-CW</b>	12V	1	20	92	7.5 ft.
<b>ZM-6223-CW</b>	24V	7	30	110	11.5 ft.

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WWW.JKLLAMPS.COM  
SALES@JKLLAMPS.COM

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ROHS COMPLIANT  
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## SERIES APPLICATIONS

Optimum dimming for the channel lights can be accomplished with a PWM dimmer, such as the ZDM-01 from JKL Components Corporation. This type of dimmer varies the duty-cycle to the LED modules which will permit smooth changes to the light output. Less sophisticated applications and designs can simply reduce applied voltage (from 12VDC to 8VDC) to the modules to obtain desired brightness levels.

## INSTALLATION

Channel Light modules can be mounted with either a #6 screw or with mounting tape installed on the back of the modules. Photographs below show the process of installing the LED modules into open channel lettering.

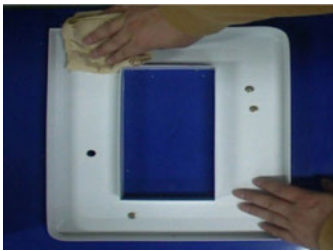


fig. 1

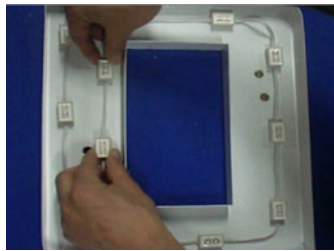


fig. 2

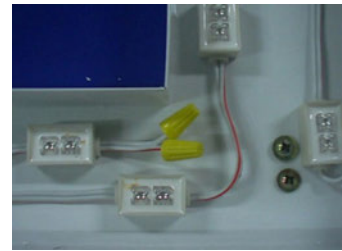


fig. 3



fig. 4

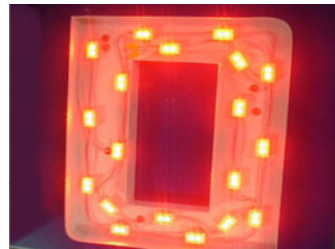


fig. 5

- 1** - Clean the inside surface of the Channel Letters.
- 2** - Expose the adhesive backing on the modules and attach according to desired layout. For additional rigidity use screws or silicone adhesive.
- 3** - Connect modules with wire nuts, considering the maximum number of modules which can be connected. Be sure to cap any exposed wires. Apply silicone into the wire nuts for additional outdoor protection. CAUTION: Be sure to check the polarity of all connections. Red is positive (+) and White is negative (-).
- 4** - Drill holes at the bottom or side of the letters to facilitate wire connection to a DC power supply. Connect the wires from the letters to the power supply. Be sure to check the DC polarity (+ positive, - negative) and AC connection (100~240VAC, 50/60Hz) CAUTION: Electric power should be off when wires are being connected.
- 5** - Turn the power on and check that all modules are lit and mount the letters.



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