

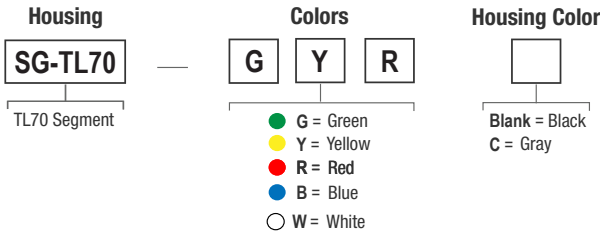
# TL70 Multicolor Tower Light Module



## Datasheet

### Models

#### TL70 Multicolor Segments



#### Example Models:

- SG-TL70-GYR (3 color: green, yellow, red)
- SG-TL70-GR (2 colors: green, red)
- SG-TL70-GY (2 colors: green, yellow)

For more information regarding TL70 Modular Tower Light Final Assemblies, refer to the following documents:

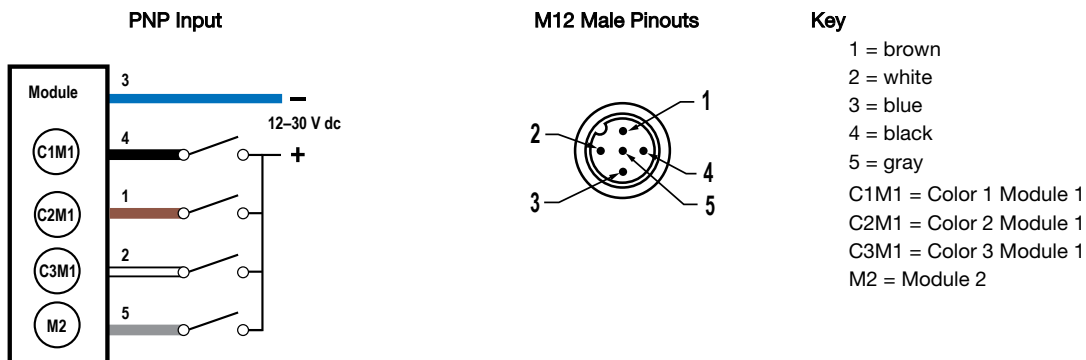
- TL70 Modular Tower Light Final Assembly Datasheet (p/n 182214)
- TL70 Wireless Modular Tower Light Datasheet (p/n 185469)
- TL70 Modular Tower Light Final Assembly For AC Datasheet (p/n 191349)

### Configuring the Module

	Assembly Options	DIP Switches		
		1	2	
	Light Module Flash Rate	3 Hz	ON	OFF
		1.5 Hz	ON	ON
		Solid On*	OFF	OFF

\* Factory default setting

### Wiring Diagrams



## Specifications

### Supply Voltage and Current

12 V dc to 30 V dc  
 Indicators - Maximum current per LED color:  
 Blue, Green, White: 420 mA at 12 V dc; 150 mA at 30 V dc  
 Red, Yellow: 285 mA at 12 V dc; 120 mA at 30 V dc

### Supply Protection Circuitry

Protected against transient voltages

### Indicator Response Time

Off Response: 150  $\mu$ s (maximum) at 12 V dc to 30 V dc  
 On Response: 180 ms (maximum) at 12 V dc; 50 ms (maximum) at 30 V dc

### Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25° C)
Green	525 nm	92
Red	625 nm	40
Yellow	590 nm	22
Blue	470 nm	32
White	5000 K	125

### Construction

Bases, segments, covers: polycarbonate

### Indicators

2 or 3 colors depending on model: Green, Red, Yellow, Blue, and White  
 Flash rates: 1.5 Hz  $\pm$ 10% and 3 Hz  $\pm$ 10%  
 LEDs are independently selected

### Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)  
 95% at +50 °C maximum relative humidity (non-condensing)

### Environmental Rating

IEC IP65

### Vibration and Mechanical Shock

Vibration 10 Hz to 55 Hz 0.5 mm p-p amplitude per IEC 60068-2-6  
 Shock 15G 11 ms duration, half sine wave per IEC 60068-2-27

### Required Overcurrent Protection



**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table. Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced. For additional product support, go to [www.bannerengineering.com](http://www.bannerengineering.com).

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

### Certifications



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