TL70 Multicolor RGB Tower Light Module



Datasheet



For more information regarding TL70 Multicolor RGB Tower Light final assemblies, including wiring diagrams, refer to the following documents: TL70 Modular Tower Light datasheet (p/n 182214)
TL70 Wireless Modular Tower Light datasheet (p/n 185469)
TL70 Modular Tower Light AC voltage datasheet (p/n 191349)

Configuring the Module

Turn on the appropriate DIP switch to set the order of the components, counting up from the tower light's base. Factory default DIP position is OFF.

Assembly Options		Black DIP Switch								
		1B	2B	3B	4B	5B	6B	7B	8B	
	Red								ON	
	Green							ON		
	Yellow							ON	ON	
	Blue						ON			
	Magenta						ON		ON	
	Cyan						ON	ON		
Color Selection	White						ON	ON	ON	
	Amber					ON				
	Rose					ON			ON	
	Lime Green					ON		ON		
	Orange					ON		ON	ON	
	Sky Blue					ON	ON			
	Violet					ON	ON		ON	
	Spring Green					ON	ON	ON		
	Color Demo									
	Flash Demo					ON	ON	ON	ON	

	Solid On						
	0.5 Hz Flash				ON		
	1.5 Hz Flash			ON			
Flashing and	3.0 Hz Flash			ON	ON		
Strobing	0 .5 Hz Strobe		ON				
	1.5 Hz Strobe		ON		ON		
	3.0 Hz Strobe		ON	ON			
	Intensity Sweep		ON	ON	ON		
Intereity	High						
Intensity	Low	ON					



Assembly Options	White DIP Switches							
	1	2	3	4	5	6		
Position	Module 1	ON						
	Module 2		ON					
	Module 3			ON				
Fosition	Module 4				ON			
	Module 5					ON		
	Module 6						ON	

Specifications

Supply Voltage and Current 12 V dc to 30 V dc Maximum current in high intensity mode: 350 mA max. at 12 V dc; 170 mA typical at 24 V dc Maximum current in low intensity mode: 140 mA max. at 12 V dc; 70 mA typical at 24 V dc

V dc

Supply Protection Circuitry Protected against transient voltages

Indicator Response Time

Off Response: 150 µs (maximum) at 12 V dc to 30 V dc On Response: 40 ms (maximum) at 12 V dc; 50 ms (maximum) at 30 V dc

Indicator Characteristics

Color	Dominant Wavelength (nm) or	Color Coor	dinates ¹	Lumen Output	
Color	Color Temperature (CCT)	x	У	(Typical at 25 °C)	
Red	622	0.694	0.304	27.4	
Green	527	0.177	0.707	69	
Yellow	575	0.456	0.489	46.6	
Blue	472	0.128	0.080	17.4	
Magenta	-	0.371	0.176	24	
Cyan	493	0.161	0.347	49.5	
White	5600 K	0.310	0.335	40.9	
Amber	589	0.542	0.422	39.9	
Rose	-	0.497	0.226	26.6	
Lime Green	561	0.369	0.556	53.8	
Orange	600	0.606	0.372	35.5	
Sky Blue	486	0.146	0.251	41.7	
Violet	-	0.222	0.117	21.3	
Spring Green	508	0.166	0.531	62.4	

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*.

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

Construction

Bases, segments, covers: polycarbonate Leakage Current Immunity

550 µA

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

Certifications

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



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Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.

