TL70 Modular Tower Light



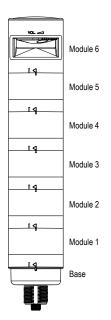
Quick Start Guide

This guide is designed to help you set up and install the TL70 Modular Tower Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for p/n 182214 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

Configuring the Modules



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



Assembly Options		DIP Switches							
		1	2	3	4	5	6	7	8
Light and Standard Audible Components	Module 1	ON							
	Module 2		ON						
	Module 3			ON					
	Module 4				ON				
	Module 5					ON			
	Module 6						ON		
Light Module Flash Rate	3 Hz							ON	OFF
	1.5 Hz							ON	ON
	Solid On*							OFF	OFF
Standard Audible Module Settings	Pulse 1.5 Hz							ON	OFF
	Chirp Alarm							ON	ON
	Siren Alarm							OFF	ON
	Continuous Alarm*							OFF	OFF

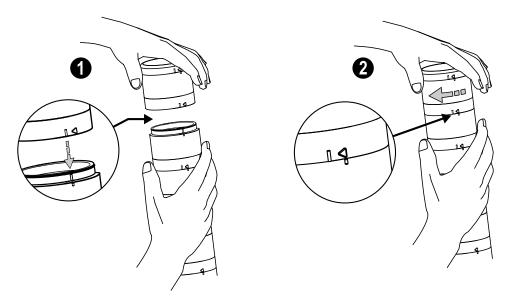
Assembly Options		DIP Switches									
		1	2	3	4	5	6	7	8	9	10
	Pulse 1.5 Hz							ON	OFF		
Loud Audible Module Settings	Chirp Alarm							ON	ON		
	Siren Alarm							OFF	ON		
	Continuous Alarm*							OFF	OFF		
	Low Intensity*									OFF	OFF
	Med. Intensity									ON	OFF
	Med./Loud Intensity									OFF	ON
	Loud Intensity									ON	ON

^{*} Factory default setting



Original Document 182215 Rev. H

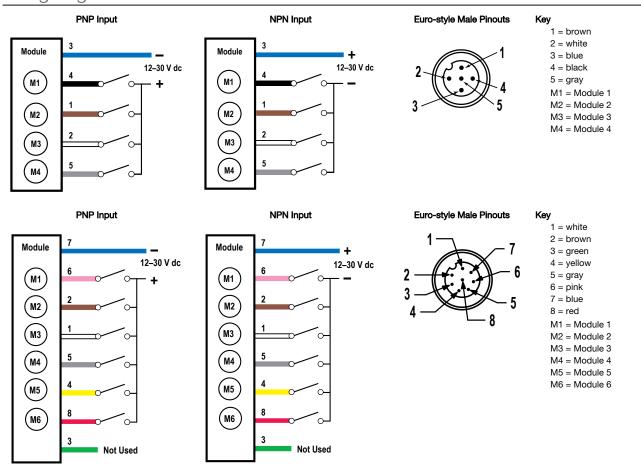
Figure 1. Assembling the modules



To assemble the modules:

- Align the notches on each module and press together.
 Rotate the top module clockwise to lock into place (notches shown in the locked position).

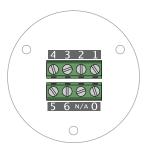
Wiring Diagrams





Note: Models SG-TL70-ALM and SG-TL70-ALMC are not compatible with NPN input wiring.

Wiring Terminal Block



Terminal Block Key

- 0 = dc common
- 1 = Module 1
- 2 = Module 2
- 3 = Module 3
- 4 = Module 4
- 5 = Module 5
- 6 = Module 6

Specifications

Supply Voltage and Current 12 V DC to 30 V DC

	Maximum Current (mA)					
Indicator Color or Audible Model	at 12 V DC	at 24 V DC	at 30 V DC			
Blue, Green, White	420	200	150			
Red, Yellow, Orange	285	145	120			
Standard Audible	30	30	30			
Loud Audible (Intensity 1)	30	28	25			
Loud Audible (Intensity 2)	50	45	40			
Loud Audible (Intensity 3)	165	90	75			
Loud Audible (Intensity 4)	350	160	120			
Programmable Audible	290	140	125			

Supply Protection Circuitry
Protected against transient voltages

1 to 6 colors depending on model (Green, Red, Yellow, Blue, White, and Orange) LEDs are independently selected Flash Rates: 1.5 Hz ±10% and 3 Hz ±10%

Indicator Response Time
Off Response: 150 μs (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)	Color Co	ordinates 1	Lumen Output (Typical at	
	Color remperature (CC1)	x	у	25 °C)	
Green	525 nm	-	-	92	
Red	625 nm	-	-	40	
Yellow	590 nm	-	-	22	
Blue	470 nm	-	-	32	
White	5000 K	-	-	125	
Orange	-	0.66	0.33	33	

Connections
5-pin M12 quick disconnect connector, 8-pin M12 quick disconnect connector, 150 mm (5.9 in) PVC cable with an M12 quick disconnect connector, terminal block, or 2 m (6.5 ft) unterminated cable, depending on model

Terminal Block Models

14 to 28 AWG wire

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

Environmental Rating

Certifications



Banner Engineering Europe Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House. Blenheim Court, Wickford, Esser SS11 8YT, Great Britain

Standard Audible: 2.6 kHz ± 250 Hz oscillation frequency; maximum intensity (typical) 98 dB at 1 m (3.3 ft)

Loud Audible: 2.6 kHz ± 250 Hz oscillation frequency; maximum intensity (typical) at 1

m (3.3 ft) (see table)

DIP Switches		Maximum Intensity (typical) at 1 meter dB		
9	10			
ON	ON	Intensity 4: 109 dB		
OFF	ON	Intensity 3: 106 dB		
ON	OFF	Intensity 2: 101 dB		
OFF	OFF	Intensity 1: 94 dB		

Audible Adjustment

Audible Alarm

Standard Audible: Rotate the cover until the desired volume is reached Loud Audible Alarm: Select the desired volume using DIP switches 9 and 10 Typical Reduction in Sound Intensity with Audible Adjustment (maximum to minimum):

Standard Audible: 8 dB Loud Audible: 15 dB

Construction

Bases, Segments, Covers: polycarbonate

Vibration and Mechanical Shock
Vibration: 10 Hz to 55 Hz, 0.5 mm peak-to-peak 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.

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

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

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