EZ-LIGHT® TL70 Loud Multi-Tone Audible Tower Light Module



Datasheet



- · Electronic volume adjustment
- Select up to four discrete sounds from a single audible module (continuous, pulse, siren, chirp)
- · Sound output options selected with DIP switches

Models

TL70 Segment Housing		Audible Alarm	Housing Color
SG-TL70	_	ALM - Loud Multi-Tone Audible	Blank - Black C - Gray

For example, SG-TL70-ALM (Loud multi-tone audible in a black housing).

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)



WARNI NG: Risk of Hearing Loss— All effective warning horns produce loud sounds that may cause, in certain situations, permanent hearing loss. The device should be installed far enough away from potential listeners to limit their exposure while still maintaining its effectiveness. Reference OSHA Code of Federal Regulations 1910.95 Noise Standard for guidelines that may be used regarding permissible noise exposure levels.

Configure the DIP Switches

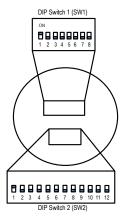


Table 1: DIP Switches for SW1

		I nput Channel Select Intensity Select					,	
	1	2	3	4	5	6	7	8
Low intensity (default setting)		Select positions 1 through 6 for the desired input channels. OFF ON OFF ON						
Medium intensity	Select po							
Medium/loud intensity								
Loud intensity		ON						ON

Input channel select—Select the input channels used to operate the audible module.

Intensity select—Select the sound intensity to operate with the selected input channels.

Table 2: Function Select DIP Switches for SW2

Assembly Options	Char	nel 1	1 Channel 2 C		Chani	Channel 3 Char		nel 4	Channel 5		Channel 6	
Assembly Options	1	2	3	4	5	6	7	8	9	10	11	12
Pulse 1.5 Hz	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Chirp alarm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON



Assembly Options	Char	Channel 1 Channel 2		nnel 2	Channel 3		Channel 4		Channel 5		Channel 6	
Assembly Options	1	2	3	4	5	6	7	8	9	10	11	12
Siren alarm	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
Continuous alarm (default setting)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Function select—Any input channel can be configured for any of the four available sound functions. This allows for up to four discrete sounds to be operated from up to four separate input channels.

Specifications

Supply Voltage and Current

12 to 30 V dc

	Maximum Current (mA) at					
Selected Intensity	12 V dc	30 V dc				
Low	15	15				
Medium	40	30				
Medium/Loud	115	55				
Loud	270	110				

Supply Protection Circuitry Protected against transient voltages

Construction

Audible segments and covers—polycarbonate

Environmental Rating

IEC IP65

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

95% at +50 °C maximum relative humidity (non-condensing)

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

Shock 15G 11 ms duration, nail sine wave per IEC 60068-2-27
Certifications





Alarm

Oscillation frequency: 2.6 kHz \pm 250 Hz

Selected Intensity	Maximum Intensity (typical) at 1 meter (db)
Low	75
Medium	93
Medium/Loud	97
Loud	101

Sound Level Adjustment

Electronic adjustment—Select the desired volume, using the intensity select DIP switches

Change in sound intensity from maximum to minimum is 26 dB

Required Overcurrent Protection



WARNI NG: 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.

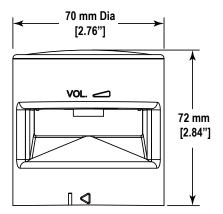
Supply wiring leads < 24 AWG shall not be spliced

For additional product support, go to http://www.bannerengineering.com.

www.barmerengmeering.com.

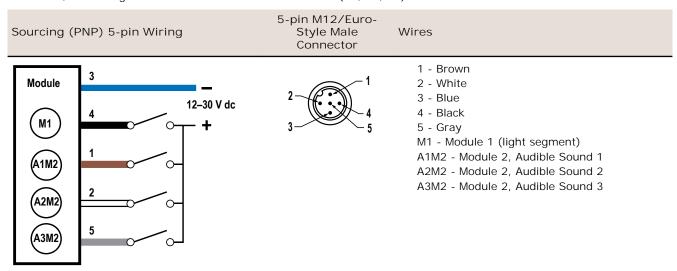
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions

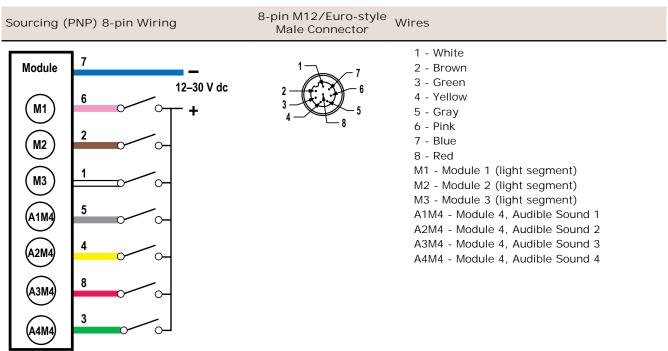


Wiring

The following example shows a loud multi-tone audible module (M2) attached to a TL70 single-color segment (M1), using a TL70 base, and configured for three discrete sound functions (A1, A2, A3).



The following example shows a loud multi-tone audible module (M4) attached to a TL70 with three single-color segments (M1, M2, and M3), and configured for four discrete sound functions (A1, A2, A3, and A4).



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