TL70 Loud Multi-Tone Audible Tower Light Module

Features



- 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:

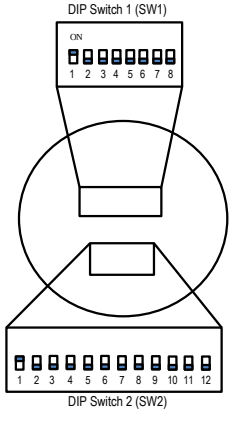
- TL70 Modular Tower Light Final Assembly Datasheet (p/n 182214)
- TL70 Wireless Modular Tower Light Datasheet (p/n 185469)
- TL70 Modular Tower Light Final Assembly for AC Datasheet (p/n 191349)

WARNING:

- **Risk of hearing loss**
- All effective warning horns produce loud sounds that could cause, in certain situations, permanent hearing loss.
- Install the device 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 about permissible noise exposure levels.

Configure the DIP Switches

DIP Switches for SW1

DIP Switch Diagram	Intensity Level	Input 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	OFF
	Medium intensity							ON	OFF
	Medium/loud intensity							OFF	ON
	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.

Original Instructions
21-Aug-25

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195189
p/n: 195189 Rev. D

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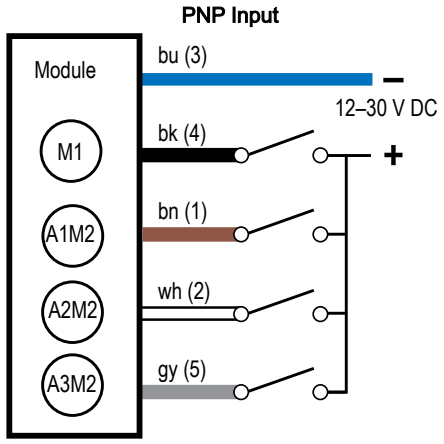
Function Select DIP Switches for SW2

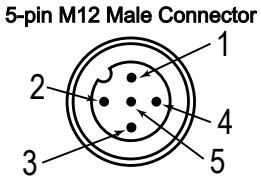
Assembly Options	Channel 1		Channel 2		Channel 3		Channel 4		Channel 5		Channel 6	
	1	2	3	4	5	6	7	8	9	10	11	12
Pulse 1.5 Hz	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Chirp alarm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Siren alarm	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
Continuous alarm (default setting)	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.

Wiring — 5-Pin Models

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).

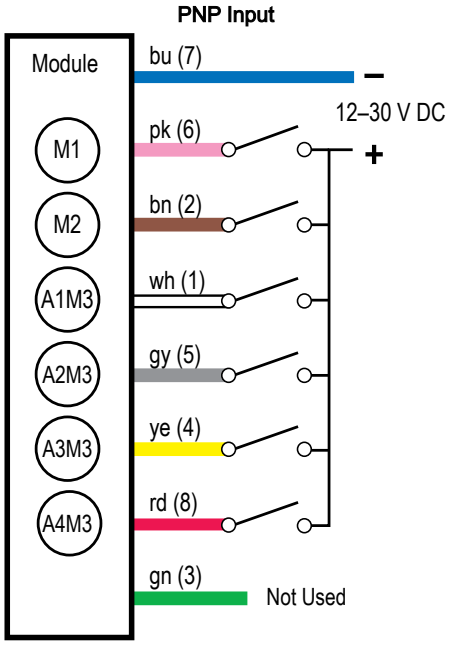


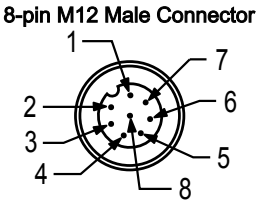


Key
1 - Brown
2 - White
3 - Blue
4 - Black
5 - Gray
M1 - Module 1 (light segment)
A1M2 - Module 2, Audible Sound 1
A2M2 - Module 2, Audible Sound 2
A3M2 - Module 2, Audible Sound 3

Wiring — 8-Pin Models

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





Key
1 - White
2 - Brown
3 - Green
4 - Yellow
5 - Gray
6 - Pink
7 - Blue
8 - Red
M1 - Module 1 (light segment)
M2 - Module 2 (light segment)
A1M3 - Module 3, Audible Sound 1
A2M3 - Module 3, Audible Sound 2
A3M3 - Module 3, Audible Sound 3
A4M3 - Module 3, Audible Sound 4

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Specifications

Supply Voltage and Current

12 V DC to 30 V DC

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

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Construction

Audible Segments and 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

Operating Conditions

–40 °C to +50 °C (–40 °F to +122 °F)

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

Environmental Rating

IP50

Certifications

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

Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

Audible Alarm

Oscillation Frequency: 2.6 kHz ± 250 Hz

Selected Intensity	Maximum Intensity (typical) at 1 meter dB
Low	83
Medium	101
Medium/Loud	106
Loud	109

Audible Adjustment

Electronic Adjustment: Select the desired volume, using the intensity select DIP switches

Typical Reduction in Sound Intensity (maximum to minimum): 26 dB

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.

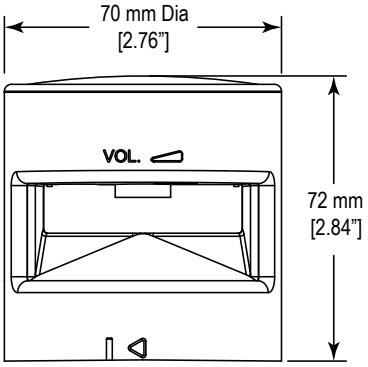
Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

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

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



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