



MT Series with Strobe



MT Series without Strobe

Description

The MT Series and MT Strobe Multitone electronic appliances offer a choice of eight (8) nationally and internationally recognized alerting sounds: Horn, Bell, March Time Horn, Code-3 Tone, Code-3 Horn, Slow Whoop, Siren or Hi/Lo Tone. With MT and MT Strobe appliances, one alarm appliance meets most of your signaling needs. Each MT and MT Strobe appliance has two installer selective sound output levels: STANDARD dBA and HIGH dBA. Non-strobe versions provide selectable voltage capability in one unit, 12 VDC or 24 VDC, filtered or FWR. Strobe versions are specific for either 12 VDC or 24 VDC and may be used with filtered or unfiltered (full-wave-rectified) input voltages. Separate input terminals are available, shunt wires are provided to enable both tone and strobe to operate simultaneously from a single input.

The Multitone Strobe appliances are ULC Listed under Standard CAN/ULC-S526-02 for Visual Signaling Appliances and Standard CAN/ULC-S525-99 for Audible Signal Appliances, and use a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum reliability for effective visible signaling.

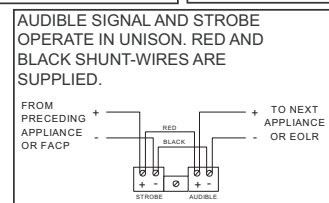
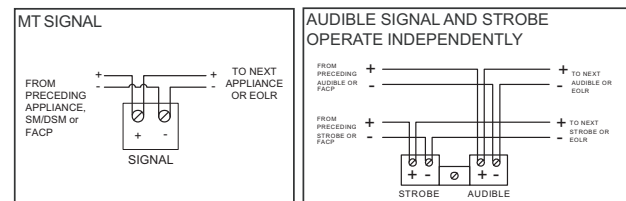
Alarm Tones

Tone	Alarm Tones Pattern Description
Horn	Broadband Horn (continuous)
Bell*	1560 Hz Modulated (0.07 sec. on/repeat)
March Time Horn	Horn (0.25 sec. ON/0.25 sec. off/repeat)
Code-3 Horn	Horn (ANSI S3.41 Temporal Pattern)
Code-3 Tone	500 Hz (ANSI S3.41 Temporal Pattern)
Slow Whoop	500-1200Hz Sweep (4.0 sec. on/0.5 sec off/repeat)
Siren	600-1200 Hz sweep (1.0 sec. on/repeat)
HI/LO	1000/800 Hz (0.25 sec. on/alternate)

Features

- Approvals include: CAN/ULC-S526-02 for Visual Signaling Appliances and Standard CAN/ULC-S525-99 for Audible Signal Appliances
- Designed to meet or exceed NFPA/ANSI Standards and ADA Accessibility Guidelines. Meet OSHA 29 Part 1910.165
- Series MT appliances have IN and OUT wiring terminations that accept two #12 to #18 American Wire Gauge (AWG) wires at each terminal. Inputs are polarized for compatibility with standard reverse polarity type supervision
- One alarm appliance with (8) eight selective signals to provide superior sound penetration for various ambient and wall conditions with two field selectable sound output levels
- Code-3 Horn and Tone meet ANSI/NFPA temporal pattern for standard emergency evacuation signaling
- Audible and strobe can operate from a single NAC circuit with any of the (8) eight audible sounds
- MT Strobe models available with 15/75 and 75 candela ratings for independent or single input activations
- Selectable input voltage on non-strobe versions. Strobe versions are factory set for either 12 or 24 VDC, with wide-Listed voltage range, filtered (DC) and FWR
- Mounts to either 4" square or double gang boxes (important for retrofit installations). Attractive flush or surface mounting
- No additional trimplate required for flush mounting

Wiring (for all models)



Specifications

Table 1: Current Ratings for AMT Multitone Audible Signals

Tone	ULC Average Current Ratings				dBA Anechoic Ratings Per CAN/ULC-525-99	
	@ 24 VDC		@ 12 VDC		@ 12 and 24 VDC	
	HI	STD	HI	STD	HI	STD
Horn	.040	.023	.100	.020	99	93
Bell	.014	.012	.031	.010	92	87
March Time Horn	.040	.023	.100	.020	99	93
Code-3 Horn	.040	.023	.100	.020	99	93
Code-3 Tone	.028	.017	.060	.015	95	90
Slow Whoop	.048	.026	.100	.025	99	94
Siren	.036	.023	.082	.020	98	93
HI/LO	.020	.014	.044	.012	93	88

Note: If the strobe and audible operate on the same circuit, add the strobe current from Table 2 to the audible current from Table 1.

For Peak and Inrush current across the listed voltage range refer to Installation Instructions.

Table 2: Strobe Current Ratings (AMPS)

ULC 12 and 24 VDC Voltage Range	ULC Rated Average Current				CAUTION: This setting is acceptable only for general signaling (non-fire alarm) use. Use the "high" dBA setting with this tone or use a different tone for public mode fire alarm service.
	MT-2241575W	MT-2475W	MT-121575W	MTWP2475W	
20.0 VDC	.084	.178	-	.131	WARNING: FOR ULC VERSIONS THESE APPLIANCES WERE TESTED TO THE OPERATING VOLTAGE OF 20.0 - 31.- VOLTS FOR 24V MODELS AND 10.5 - 15.6 VOLTS FOR 12V MODELS USING FILTERED (DC) OR UNFILTERED FULL-WAVE-RECTIFIED (FWR). APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEM OPERATIONS.
24.0 VDC	.068	.140	-	.107	
31.0 VDC	.060	.124	-	.101	
10.5 VDC	-	-	.231	-	
12.0 VDC	-	-	.179	-	
15.6 VDC	-	-	.161	-	

Engineering Specifications

The notification appliance shall be an MT Series audible/visual appliance or equivalent. Notification appliance shall be electronic and use solid state components. Electromechanical alternatives are not approved. Each electronic appliance shall provide eight (8) field selectable alarm tones. The tones shall consist of: HORN, BELL, MARCH TIME HORN, CODE-3 HORN, CODE-3 TONE, SLOW WHOOP, SIREN and HI/LO. Tone selection shall be by durable dip switch assembly and not clips or jumpers. The audible and the strobe shall be able to operate from a single NAC circuit while producing any of these tones. The appliance shall provide two output sound levels: STANDARD and HIGH dBA. The HIGH dBA setting shall provide a minimum 5 dBA increase in sound output at nominal voltage. The HIGH anechoic dBA measurement at 10 feet at the alarm HORN SETTING shall be 101 dBA minimum for MT and 99 dBA minimum for MT Strobes, at nominal voltage. Operating voltages shall be either 12 VDC or 24 VDC using filtered power or unfiltered power supply (full-wave-rectified). All models shall have provisions for standard reverse polarity type supervision and IN/OUT field wiring using terminals that accept #12 to #18AWG wiring.

Combination audible/visual appliances shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens or equivalent with solid state circuitry. Strobe shall produce

a flash rate of one (1) flash per second minimum over the voltage range. The strobe intensity shall be rated per CAN/ULC-S525-99 for Candela.

All Listed strobe appliances shall incorporate low temperature compensation to insure the lowest possible current consumption. Strobe activation shall be via independent input or from the same input circuit as the audible. The combination audible/visual appliances may be installed indoors and surface or flush mounted. They shall mount to standard electrical hardware requiring no additional trimplate or adapter. The aesthetic appearance shall not have any mounting holes or screw heads visible when the installation is completed. The appliance shall be finished in a textured red color. The audible appliance may be installed indoor or outdoor with the proper back box.

Ordering Information

Model Number	Input Voltage	ULC Rated Candela
MT-12/24-R-ULC	12/24	-
MT-12/24-W-ULC	12/24	-
MT-241575W-FR	24	75

NOT TO BE USED FOR INSTALLATION PURPOSES.



Canada

25 Interchange Way
Vaughan, Ontario L4K 5W3
Telephone: (905) 660-4655
Fax: (905) 660-4113

U.S.A.

4575 Witmer Industrial Estates
Niagara Falls, NY 14305
Toll Free: (888) 660-4655
Fax Toll Free: (888) 660-4113

Web page: <http://www.mircom.com> Email: mail@mircom.com

Distributed by:

