

Description

The Series MT multitone horns and horn strobes 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. The Code-3 Horn and tone patterns are engineered to comply with NFPA/ANSI Temporal Pattern specifications without requiring additional equipment. With MT horns and horn strobes, one alarm appliance meets most of your signaling needs. The MT strobes can be synchronized using the Wheelock DSM Sync Modules, Wheelock Power Supplies or other manufacturers panel incorporating the Wheelock Patented Sync Protocol. The MT's Code 3 Horn may be synchronized with the same equipment

The Series MT Strobes are designed for ADA applications while meeting or exceeding the latest requirements of NFPA 72, ANSI 117.1, UFC and UL Standard 1971 as well as meeting ADA requirements concerning photosensitive epilepsy.

Each Series MT appliance has two installer selective sound output levels: STANDARD dBA and HIGH dBA. Non-strobe versions provide selectable voltage capability in one unit, 12VDC or 24VDC. Strobe versions are specific for either 12VDC or 24VDC and all models may be used with filtered or unfiltered (full-wave-rectified) input voltages. Separate input terminals and shunt wires are provided to enable both audible and strobe to operate simultaneously from a single input.

The Series MT multitone strobe appliances are UL listed for indoor wall mount applications under Standard 1971 for Signaling Devices for the Hearing Impaired and under Standard 464 for Audible Signaling Appliances. The MT horn strobe are also ULC listed under ULC-S525 Audible Signaling Devices for Fire Alarm and Signaling Systems, including Accessories and ULC-S526 Visible Signal Devices, Fire Alarm and Signaling Systems, including Accessories.

Listing

UL Standard 1971, UL Standard 464, ULCS525,
ULC-S526, California State Fire Marshal (CSFM), and
Factory Mutual (FM)



Features

- Approvals include: UL Standard 1971, UL Standard 464, ULCS525, ULC-S526, California State Fire Marshal (CSFM), and Factory Mutual (FM). See approvals by model in Specifications and Ordering Information
- Designed to meet or exceed ADA/NFPA/UFC/ANSI Standards and Accessibility Guidelines
Complies with 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. MT (Version 2) Code 3 Horn may be synchronized with the same equipment as the strobe.
- Audible and strobe can operate from a single NAC circuit or from separate NAC circuits with any of the (8) eight audible sounds MT Strobe models are available with Wheelock patented MCW Multi - Candela strobes with field selectable candela settings at 15/30/75/110cd strobes. Synchronize using the Wheelock Sync Modules or panels with built-in Wheelock Patented Sync Protocol
- Selectable input voltage on non-strobe versions. Strobe versions are factory set for either 12 or 24VDC, with regulated voltage range, filtered (DC) and FWR
- No additional trimplate required for flush mounting

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Represented by:

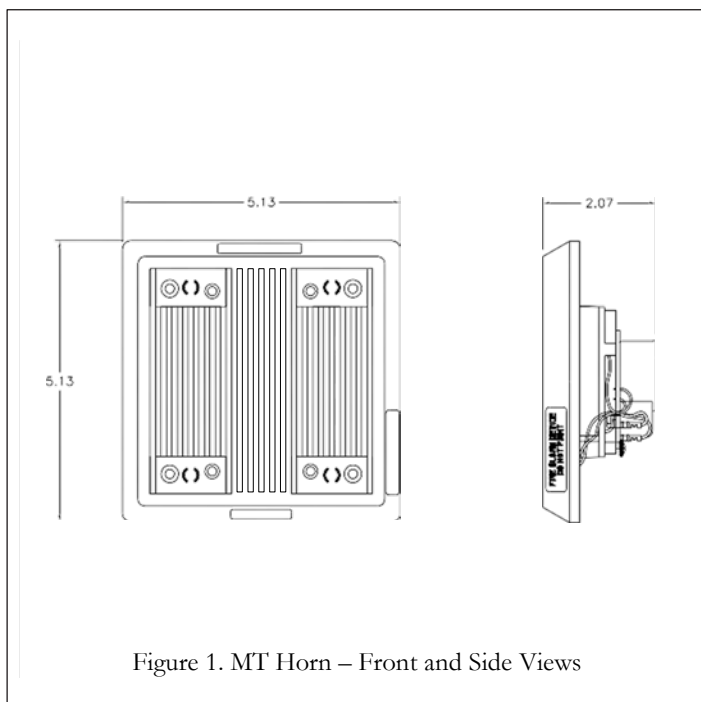


Figure 1. MT Horn – Front and Side Views

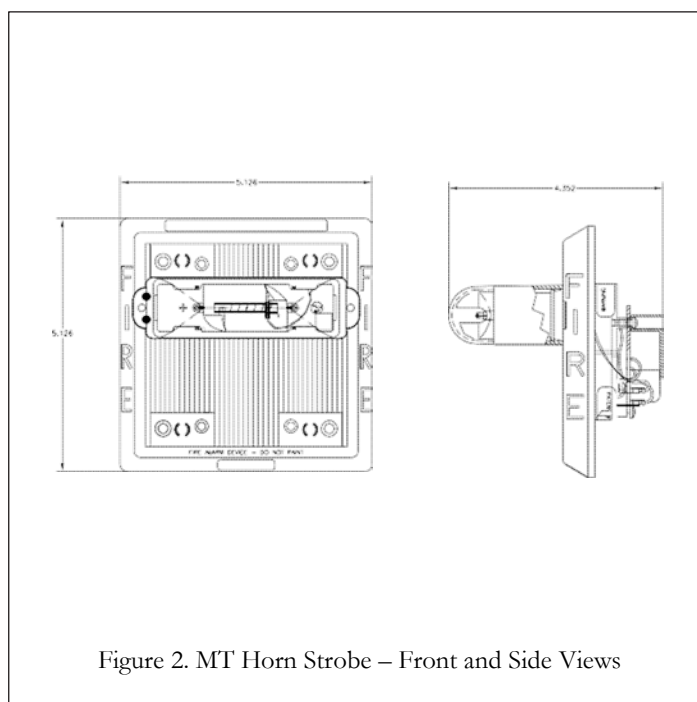


Figure 2. MT Horn Strobe – Front and Side Views

Alarm Tones

| Tones | 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 | 500-1200 Hz Sweep (4.0 sec. On/0.5 sec Off/Repeat) |
| Siren | 600-1200 Hz (1.0 sec. On/Repeat) |
| HI/LO | 1000/800 Hz (0.25. On/Alternate) |

General Notes

- Strobes are designed to flash at 1 flash per second minimum over their “Regulated Voltage Range.” Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second.
- All candela ratings represent minimum effective Strobe intensity based on UL 1971.

Maximum RMS current for strobes

| MT Strobes Model | Regulated Voltage Range VDC/VAC | UL/ULC Max Current 24VDC | | | | | | |
|---------------------|---------------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|
| | | 15 | 30 | 75 | 110 | 180 | 1575 | 12 |
| MT-121575 | 16.0-33.0 VDC | | | | | | 0.255 | |
| MTWP-2475 | 16.0-33.0 VDC | | | | | 0.138 | | |
| MT24-MCW | 16.0-33.0 VDC | 0.060 | 0.092 | 0.165 | 0.220 | | | |
| MY4-115-WH | 96-123 VAC | | | | | | | 0.070 |

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Represented by:



Series MT Multitone Horns and Horn Strobes

Series MT Devices

Maximum RMS current for Audibles

| Alarm Tones | 24 VDC | | 12 VDC | | 120 VAC | |
|-----------------|-----------|------------|-----------|------------|-----------|------------|
| | HI Output | STD Output | HI Output | STD Output | HI Output | STD Output |
| Horn | 0.108 | 0.044 | 0.177 | 0.034 | 0.050 | 0.045 |
| Bell | 0.053 | 0.024 | 0.095 | 0.020 | 0.045 | 0.045 |
| March Time Horn | 0.104 | 0.087 | 0.142 | 0.034 | 0.050 | 0.045 |
| Code-3 Horn | 0.122 | 0.035 | 0.200 | 0.034 | 0.050 | 0.045 |
| Code-3 Tone | 0.135 | 0.035 | 0.152 | 0.021 | 0.045 | 0.045 |
| Slow Whoop | 0.098 | 0.037 | 0.142 | 0.035 | 0.050 | 0.045 |
| Siren | 0.104 | 0.036 | 0.152 | 0.030 | 0.045 | 0.045 |
| HI/LO | 0.057 | 0.025 | 0.114 | 0.026 | 0.045 | 0.045 |

dBA for Multitone Audible Portion

UL Reverberant dBA at 10 Feet

| Alarm Tones | 24 VDC | | 12 VDC | | 120 VAC | |
|-----------------|-----------|------------|-----------|------------|-----------|------------|
| | HI Output | STD Output | HI Output | STD Output | HI Output | STD Output |
| Horn | 92 | 87 | 92 | 87 | 89 | 86 |
| Bell | 86 | 80 | 86 | 80 | 80 | 74 |
| March Time Horn | 89 | 84 | 89 | 84 | 86 | 83 |
| Code-3 Horn | 88 | 83 | 88 | 83 | 85 | 82 |
| Code-3 Tone | 85 | 80 | 85 | 80 | 84 | 81 |
| Slow Whoop | 90 | 85 | 90 | 85 | 87 | 84 |
| Siren | 89 | 84 | 89 | 84 | 87 | 84 |
| HI/LO | 86 | 81 | 86 | 81 | 84 | 80 |

UL Anechoic dBA at 10 Feet

| Alarm Tones | 24 VDC | | 12 VDC | | 120 VAC | |
|-----------------|-----------|------------|-----------|------------|-----------|------------|
| | HI Output | STD Output | HI Output | STD Output | HI Output | STD Output |
| Horn | 99 | 93 | 99 | 87 | 99 | 95 |
| Bell | 92 | 87 | 92 | 73 | 88 | 82 |
| March Time Horn | 99 | 93 | 99 | 86 | 99 | 95 |
| Code-3 Horn | 99 | 93 | 99 | 86 | 99 | 95 |
| Code-3 Tone | 95 | 90 | 91 | 71 | 96 | 92 |
| Slow Whoop | 99 | 94 | 99 | 89 | 99 | 95 |
| Siren | 98 | 93 | 98 | 86 | 98 | 94 |
| HI/LO | 93 | 88 | 92 | 72 | 95 | 90 |

RMS current ratings are per UL maximum RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

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Represented by:



Series MT Multitone Horns and Horn Strobes

Series MT Devices

Ordering Information

| Model | Input Voltage | Strobe Candela |
|----------------|---------------|----------------|
| MT-12/24-R | 12/24 | |
| MT-12/24-W | 12/24 | |
| MT-24MCW-FR | 24 | 15/30/75/110 |
| MT-24MCW-FW | 24 | 15/30/75/110 |
| MT-24MCW-AR | 24 | 15/30/75/110 |
| MT-121575W-FR | 12 | 15(75 on AXIS) |
| MT-121575W-NW | 12 | 15(75 on AXIS) |
| MTWP-2475W-FR | 24 | 180@77F(25C) |
| MTWP-2475W-NW | 24 | 180@77F(25C) |
| MT4-115-R | 120 VAC | |
| MT4-115-S | 120 VAC | |
| MT4-115-WH-VFR | 120 VAC | |
| MT-12/24-R | 12/24 | |
| MT4-12/24-S | 12/24 | |

MTWP-2475W is Weatherproof and rated for 180 cd @ 77°F (25°C). See Data Sheet S9004 or Installation Instruction P84150

Engineer's Specifications

The notification appliance shall be a Series MT 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 dip switch. The Multitone Audible appliance shall be UL Listed under Standard 464 for Audible Signal Appliances. 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 typical 5 dBA increase in sound output at nominal voltage. The HIGH anechoic dBA at 10 feet on the alarm HORN SETTING shall be 99 dBA minimum. 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 #18 AWG 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. Strobe Models shall incorporate circuitry for synchronized strobe flash and shall be designed for compatibility with Wheelock DSM Sync Modules, Wheelock Power Supplies or other manufacturers panels with built-in Wheelock Patented Sync Protocol.

The strobes shall not drift out of synchronization at any time during operation. If the module fails to operate (i.e., contacts remain closed), the strobes shall revert to a non-synchronized default flash rate. Strobe activation shall be via independent input or from the same input circuit as the audible.

The combination audible/visual appliances shall be installed indoors and may be surface or flush mounted. They shall mount to standard electrical hardware requiring no additional trim plate 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 Series MT-12/24, MTWP and MT4 appliances may be installed indoor or outdoor with the proper back box.

UL, ULC, CSFM, FM, FCC

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