

MULTITONE ELECTRONIC SIGNALS



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The 115 VAC, 12 VDC & 24 VDC MT and MT Strobe Series Multitone electronic signals 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. Our Code-3 horn and tone patterns are engineered to comply with NFPA/ANSI Temporal Pattern specifications without requiring additional coding means. With MT and MT Strobe Signals, one alarm appliance meets most of your signaling needs.

Each MT and MT Strobe appliance has two user selective sound output levels: STANDARD dBA and HIGH dBA. 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 Signals are UL Listed for private mode indoor and outdoor use, ceiling and wall mount, under Standard 1638 for Visual Signaling Devices where UL 1971 is not required and Standard 464 for Audible Signal Appliances. They use a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum reliability for effective visible signaling.

MT Series Signals have IN and OUT wiring terminations that accept two #12 to #18 American Wire Gauge (AWG) wires at each terminal.

Underwriters Laboratories Listings, Factory Mutual, California State Fire Marshal, New York City MEA and Chicago BFP approvals on selected models (see Ordering information).

FEATURES/APPLICATIONS

- 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/ISO temporal pattern for standard emergency evacuation signaling.
- Audible and strobe can operate from a single signaling circuit with any of the (8) eight audible signals.
- Designed to meet or exceed NFPA/ANSI Standards.
- Low current draw to reduce power consumption and wiring costs.
- MT Strobe models available with 15 candela rating for independent or single input activations.
- MT models are UL Listed for Fire Alarm Service.
- Low cost installation via standard electrical boxes. Attractive flush or surface mounting options.
- No additional trimplate required for flush mounting. Fast installation with In/Out screw terminals using #12 to #18 AWG.
- Compliance with RFI limits in FCC Part 15, Class B for compatibility with sensitive detection and communication circuits.
- Listed under UL Standard 1638 for private mode visual Signaling Devices and UL 464 for Audible Appliances.
- The MT-WH strobe model is UL 1638 Listed at 15 cd and is designed for surface mounting indoor or outdoor with weatherproof backbox.

See other side for ordering information and specifications



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Ordering Information

Model #	Description	Voltage	Current	dBA	Candela	Mounting	Listing
MT-1224-W	Flush Multi-Tone (White)	12/24 DC	See Specifications		15	A-G	UL
MT4-115-S	Surface Multi-Tone	115 AC				H	UL
MT-12-WH-VNW	Flush Multi-Tone Strobe (White)	12 DC				A-G	UL
MT-24-WH-VNW	Flush Multi-Tone Strobe (White)	24 DC				A-G	UL
MT4-115-VNW	Surface Multi-Tone Strobe (White)	115 AC				H	UL
IOB-W	IOB Black Box (White)	—				D	UL
ISP-W	ISP Extender (White)	—				F&G	UL
RP-W	RP Plate (White)	—				E	UL

Specifications

Alarm Tones

Tone	Alarm Tones
Tone	Pattern Descriptions
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 Sweep (1.0 sec./Repeat)
Hi/Lo	1000/800 Hz (0.25 sec.ON/Alternate)

Multi-Tone Signal

Tone	Input Current ¹ AMPS @ 24VDC		Input Current ¹ AMPS @ 12VDC		Typical Anechoic ² dBA at 10 feet		Rated Reverberant dBA ³ at 10 Feet Per UL 464				115 Volts AC					
					At Nominal Input Voltage		At Minimum Input Voltage		At Nominal Input Voltage		Rated Average Input Current (AMPS)		Typical Anechoic dBA at 10 feet		Rated Reverberant at 10 feet Per UL46	
	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD
Horn	0.040	0.023	0.100	0.020	101	95	88	82	91	85	0.050	0.040	100	95	88	82
Bell	0.014	0.012	0.031	0.010	94	89	82	75	85	79	0.040	0.038	94	89	82	75
March Time Horn	0.040	0.023	0.100	0.020	101	95	85	79	88	82	0.050	0.040	100	95	85	79
Code-3 Horn	0.040	0.023	0.100	0.020	101	95	85	75	85	79	0.050	0.040	100	95	85	75
Code-3 Tone	0.028	0.017	0.060	0.015	97	92	79	75	82	75	0.042	0.038	97	92	79	75
Slow Whoop	0.048	0.026	0.100	0.025	101	96	88	82	88	82	0.050	0.040	100	95	88	82
Siren	0.036	0.023	0.082	0.020	100	95	85	82	88	82	0.045	0.040	99	94	85	82
HI/LO	0.020	0.014	0.044	0.012	95	90	82	79	85	79	0.041	0.039	95	90	82	79

¹Add 25% more input current when operating the unit at maximum input voltage (15.6 VDC models, 31 VDC for 24 VDC models)

²Anechoic dBA is measured on axis in a non-reflective (free field) test room using fast meter response. For peak dBA (measured with peak meter response,) add 5 dBA to typical anechoic values shown in Table 1

³Reverberant dBA is a minimum UL rating based on sound power measurements in a reverberant test room

Tone	Input Current AMPS @ 24VDC (Audible Only)		Input Current AMPS @ 12VDC (Audible Only)		Typical Anechoic ¹ dBA at 10 feet		Rated Reverberant dBA ² at 10 Feet Per UL 464				Rated Average Input Current (AMPS)		115 Volts AC			
					At Nominal Input Voltage		At 18VDC		At Nominal Input Voltage				Typical Anechoic dBA at 10 feet		Rated Reverberant at 10 feet Per UL46	
	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD
Horn	0.040	0.023	0.100	0.020	99	93	85	79	88	82	0.050	0.040	99	93	85	82
Bell	0.014	0.012	0.031	0.010	92	87	79	75	82	75	0.040	0.038	92	87	82	75
March Time Horn	0.040	0.023	0.100	0.020	99	93	82	75	85	79	0.050	0.040	99	93	85	79
Code-3 Horn	0.040	0.023	0.100	0.020	99	93	79	75	82	75	0.050	0.040	99	93	82	75
Code-3 Tone	0.028	0.017	0.060	0.015	95	90	75	70'	79	73'	0.042	0.038	95	90	79	73'
Slow Whoop	0.048	0.026	0.100	0.025	99	94	82	75	85	79	0.050	0.040	99	94	85	79
Siren	0.036	0.023	0.082	0.020	98	93	82	75	85	79	0.045	0.040	98	93	85	79
HI/LO	0.020	0.014	0.044	0.012	93	88	79	75	82	75	0.041	0.039	93	88	82	75

¹Anechoic dBA is measured on axis in a non-reflective (free field) test room using fast meter response. For peak dBA (measured with peak meter response,) add 5 dBA to typical anechoic values shown in Table 3

²Reverberant dBA is a minimum UL rating based on sound power measurements in a reverberant test room



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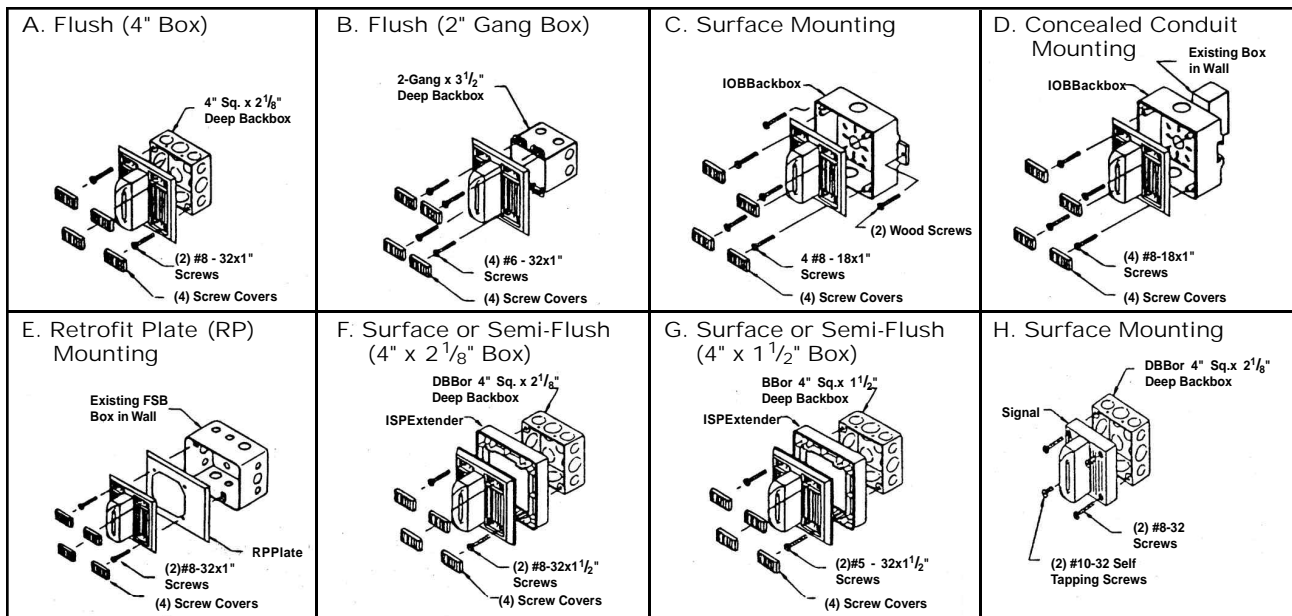
Ordering Information and Specifications



Table 3:UL Ratings for Multitone Strobe Signals

Model	Rated Input Voltage VDC ¹			Rated Strobe Input Current (Amps)			Rated Strobe ¹ Candela Per UL1638 (cd)
	Min	Nom	Max	Min	Nom	Max	
MT-24-WH	18	24	31	.075	.075	.078	15.0 cd
MT-12-WH	—	12	—	—	.150	—	15.0 cd
MT4-115-VNW	—	115	AC	—	.060	—	117 cd

Mounting Options



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