



SERIES ET-1010 AND ET-1080 VANDAL RESISTANT SPEAKERS & SPEAKER STROBES

Description

Wheelock's Series ET Vandal Resistant speakers and speaker strobes provide a full range of rugged, high performance combinations specifically designed to meet the critical needs of the life safety industry for voice and tone signaling. Available in compact, aesthetically pleasing package styles, each ET model covers both 25 and 70 volt audio systems, and has multiple wattage taps from 1/8 to 8 watts. Their high-efficiency design provides improved voice clarity and higher sound output for typical low frequency fire evacuation signals, such as the "slow whoop" and "code-3". The Series ET provides unequalled performance and installation flexibility at the job site, while minimizing confusion about mounting and performance capabilities. Cost savings are maximized through reduced power supply and wiring costs, lower inventory costs, and lower cost backboxes.

Series ET Speaker Strobes are designed with maximum performance, reliability and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72 (National Fire Alarm Code), ANSI 117.1 (American National Standard of Accessible and Usable Buildings and Facilities) and UL Standard 1971 (Standard for Signaling Devices for the Hearing Impaired). ET Speaker Strobes, when properly specified and installed in accordance with NFPA/ANSI Standards, can provide the Equivalent Facilitation allowed under ADA Accessibility Guidelines (ADAAG General Section 2.2) by meeting or exceeding the illumination which results from the ADA specified strobe intensity of 75 candela at 50 feet. This is an illumination of 0.030 lumens per square foot.

Series ET Speaker Strobes are UL Listed for indoor use, ceiling and wall mount, under Standard 1971 for Signaling Devices for the Hearing Impaired and Standard 1480 for Speaker Appliances, and use a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum reliability for effective visible signaling. Strobe options include LS/SL/MS and IS Series strobes which are Listed at 15, 30 and 75 candela intensity to cover 20' X 20', 30' X 30' and 40' X 40' rooms, respectively. **The LSM and SLM Series 15/75 candela wall mounted strobes were tested at UL for 75cd on axis, and are Listed at 15 candela under UL 1971 and meet 75 candela intensity on axis for ADA guidelines.**

Series ET Speaker Strobes equipped with SL/SLM Synchronized Strobes, when used in conjunction with SM/DSM Sync Modules, produce a synchronized strobe flash for compliance with ADA guidelines concerning photosensitive epilepsy.



ET-1080



ET-1010

Features

- **Approvals include: Underwriters Laboratories Listings UL 1480 and 1971, California State Fire Marshal (CSFM), New York City (MEA), Chicago (BFP), and FCC Part 15.**
- High efficiency speakers designed for maximum output at minimum wattage across 400 to 4000 HZ frequency range.
- Field selectable taps for 25 or 70 VRMS operation from 1/8 watt up to 8 watts in 3 dB steps.
- Designed to meet or exceed NFPA/ANSI Standards and ADA Accessibility Guidelines. Meets OSHA 29 Part 1910.165.
- ET Speaker Strobe models available with 15, 15/75, 30 and 75 candela strobes featuring wide 20-31 VDC Listed voltage range with low current draw and low temperature compensation to reduce power consumption and wiring costs.
- Wheelock's patented Series SL, LS, LSM, SLM, MS and IS strobe designs offer fire alarm system designers, specifiers and installers the industry's widest selection of UL 1971 Listed strobe products.
- All strobe inputs are compatible with standard reverse polarity type supervision of circuit wiring by an alarm panel.
- Attractive package styles for flush or surface mounting to standard low cost backboxes.
- Vandal resistant die cast grilles.
- Sealed back speaker construction for extra protection and improved audibility.
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wiring.
- Compliance with RFI limits in FCC Part 15, Class B for compatibility with sensitive detection and communication circuits.
- Audio inputs include a 10 µF blocking capacitor for compatibility with DC supervision of Speaker Notification Appliance Circuits.

NOTE: All CAUTION and WARNINGS are identified by the symbol ▲. All warnings are printed in bold capital letters.

▲ **WARNING: PLEASE READ THESE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**

General Notes:

- Strobes are designed to flash at 1 flash per second minimum over the listed voltage range of 20-31VDC.
- All candela ratings represent minimum effective strobe intensity based on UL 1971.
- ET-1010 speakers are Listed for indoor or outdoor use with a temperature range of -31° F to 150° F (-35° C to 66° C) and maximum humidity of 95% RH. ET-1080 speakers and speaker strobes are Listed for indoor use with a temperature range of 32° F to 120° F (0° C to 49° C) and maximum humidity of 85% RH

SPECIFICATIONS AND ORDERING INFORMATION

Series	Model Number	Order Code	Strobe Candela	Strobe Average Current* @ 24 VDC	Mounting*** Options
ET Vandal Resistant Speakers	ET-1010-R	3135	---	---	E,K,N,R,S,T,U,Z
	ET-1010-W	3137	---	---	E,K,N,R,S,T,U,Z
	ET-1080-R	3141	---	---	L,O,P,Q,T,U,V
ET Vandal Resistant Speaker Strobes	ET-1080-LS-24-VFR	5209	15	.074	L,O,P,Q,V,Y,Z
	ET-1080-LS-24-VFW	5210	15	.074	L,O,P,Q,V,Y,Z
	ET-1080-SL-VFR	6320	15	.096	L,O,P,Q,V,Y,Z
	ET-1080-LSM-24-VFR	5207	15/75	.100	L,O,P,Q,V,Y,Z
	ET-1080-SLM-VFR	6321	15/75	.138	L,O,P,Q,V,Y,Z
	ET-1080-LSM-24-VFW	5208	15/75	.100	L,O,P,Q,V,Y,Z
	ET-1080-MS-24-VFR	5335	30	.124	L,O,P,Q,V,Y,Z
	ET-1080-MS-24-VFW	5336	30	.124	L,O,P,Q,V,Y,Z
	ET-1080-IS-24-VFR	5368	75	.200	L,O,P,Q,V,Y,Z
	ET-1080-IS-24-VFW	5367	75	.200	L,O,P,Q,V,Y,Z
			Input Voltage	Average Current	
SINGLE CIRCUIT SYNC MODULE**					
SM-12/24-R		6369	12 or 24	.014/.025	E,N
DUAL CIRCUIT SYNC MODULE**					
DSM-12/24-R		6374	12 or 24		.020/.038

Speaker dBA at 10 Feet (Rated Watts) [#]						
1/8	1/4	1/2	1	2	4	8
78.4	81.6	84.4	87.2	90.1	92.8	94.9

* Average current per actual Wheelock Production Testing @ 24 VDC. For rated average, peak and inrush current across the listed voltage range for both filtered DC and full wave rectified (FWR), see the Installation Instructions or the current Wheelock "Fire Alarm Products" catalog.

** SM Sync Modules are rated for 3.0 amperes at 12 or 24 VDC. DSM Sync Modules are rated for 3.0 amperes per circuit. The maximum number of interconnected DSM modules is twenty (20).

*** Refer to Data Sheet # S-7000 for Mounting Options.

dBA Ratings are based on UL Testing under Standard UL1480.

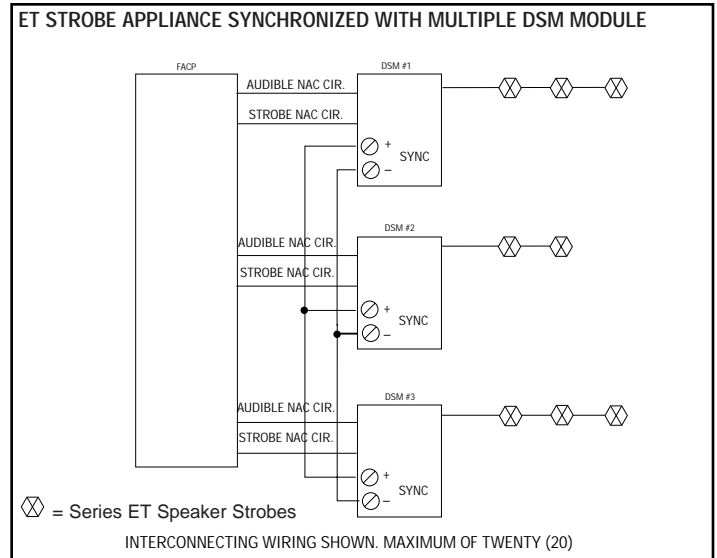
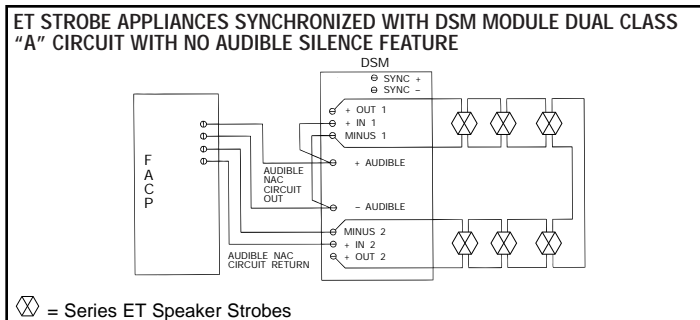
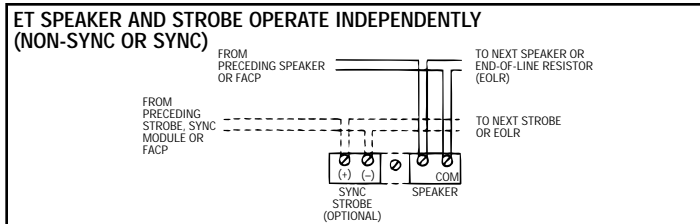
Speaker Notes: 1. ET-1010/1080 models can be used with Wheelock's Series RSSP strobe/plate assembly. 2. Series ET models have field selectable taps for 1/8, 1/4, 1/2, 1, 2, 4 or 8 watt operation (**Note: The 4 watt tap is not available with Series ET-1010 at 25 VRMS**). 3. Models code suffix: V=vertical lens; C=ceiling lens; F=fire lettering; R=red plate; W=white plate.

The letters SL & SLM denote synchronized strobe models.

▲ WARNING: CONTACT WHEELLOCK FOR THE CURRENT "INSTALLATION INSTRUCTIONS" SHEET (P83575) AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS DO UNDERGO PERIODIC CHANGES, IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- TOTAL CURRENT REQUIRED BY ALL STROBE APPLIANCES CONNECTED TO SYSTEMS PRIMARY AND SECONDARY POWER SOURCES.
- FUSE RATINGS ON NAC CIRCUITS TO HANDLE MAXIMUM INRUSH OR PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR RATED INPUT VOLTAGE RANGE.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- USE STROBES ONLY ON CIRCUITS WITH CONTINUOUSLY APPLIED OPERATING VOLTAGE. DO NOT USE STROBES ON CODED OR INTERRUPTED NAC CIRCUITS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF AS THE STROBE MAY NOT FLASH.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.
- CONDUCTOR SIZE (AWG), LENGTH AND CAPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.

Wiring Diagrams (For All Models)



For detail using SM or DSM Sync Module refer to Data Sheet S3000 or installation instructions (P83123 for SM and P83177 for DSM).

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock, Inc. standard terms and conditions

Architects and Engineers Specifications

The speaker appliances shall be Wheelock Series ET-1010 or ET-1080 vandal resistant speakers and speaker strobes or equivalent. The speakers shall be UL 1480 Listed for Fire Protective service and the strobes shall be UL 1971 Listed Signaling Devices for the Hearing Impaired. All speakers shall include both 25 and 70 VRMS inputs with field selectable power taps from 1/8 watt to 8 watts with listed sound output up to 94 dB for speakers or speaker strobes. Strobes shall be listed for 20-31 VDC input using filtered power or unfiltered power supply VRMS. 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. The speaker shall be constructed of a vandal resistant die cast metal.

Combination speaker strobe appliances shall incorporate a Xenon flashtube enclosed in a rugged Lexan lens or equivalent with solid state circuitry. Strobe shall meet UL 1971 and produce a flash rate of one (1) flash per second minimum over the listed input voltage (20VDC-31VDC) range. The strobe intensity shall be rated per UL 1971 for 15, 30 or 75 Candela. The LSM/SLM 15/75 candela strobes shall be specified when 15 candela UL 1971 Listing with 75 candela intensity on-axis is required.

Synchronized strobe versions (e.g., models utilizing type SL and SLM strobes) shall incorporate circuitry for synchronized strobe flash and shall be designed for compatibility with Wheelock SM and DSM Sync Modules. Wheelock Sync Modules and Synchronized Strobes shall be designed as a system for continuous activation of the strobes, should the Sync Module contacts fail in the passive state (i.e., contacts remain closed) the strobes shall revert to a non-synchronized rate of 1 flash per second (default mode).

All UL 1971 Listed strobe appliances shall be verified to meet FCC Part 15, Class B and incorporate low temperature compensation to insure the lowest possible current consumption. Strobe activation shall be via independent input from the speaker notification appliance circuit.

The combination speaker strobe appliances may be installed indoors and surface or flush mounted. They shall mount to standard electrical hardware requiring no additional trimplate or adapter. The appliance shall be vandal resistant die cast metal finished in a textured red or white color.

3 YEAR WARRANTY

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MEMBER

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