

# Wheelock MIZ Series Piezoelectric Mini-Horns

Section: Audio/Visual Devices

## GENERAL

Wheelock's **MIZ Series Piezoelectric Mini-Horns** are compact electronic alarm signals that are listed under UL 464 for Audible Appliances for use in public mode Fire Protection Systems. They are ideal for alarm signaling in individual rooms, apartments, hotels, motels, offices – where attractive appearance, dependable performance and economical installation are prime concerns. MIZ Series Mini-Horns produce high sound output (90 dBA at 10 feet [3.048 m]) with minimum current draw, just 12 milliamps at 24 volts. All Mini-Horn models are designed for easy installation with convenient mounting to standard single-gang boxes and in-out screw terminals for fast wiring. They are ruggedly constructed of high-impact thermoplastic and are available in either fire-alarm red or off-white to blend with room decor.

The MIZ Series Strobe-Horns are designed for maximum performance, reliability and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72 (the National Fire Alarm Code), ANSI 117.1 (the American National Standard of Accessible and Usable Buildings and Facilities).

The MIZ Series signals are available with either 12 VDC or 24 VDC and may be used with filtered or unfiltered (full-wave-rectified) input voltages. MIZ Series Signals have IN/OUT wiring terminations that accept two #12 AWG (3.25 mm<sup>2</sup>) to #18 AWG (0.75 mm<sup>2</sup>) wires at each terminal. Inputs are polarized for compatibility with standard reverse polarity type supervision.

## FEATURES

- High sound output for enhanced audibility (90 dBA at 10 feet [3.048 m]).
- Low current draw with low temperature compensation to reduce power consumption and wiring costs.
- 12 VDC and 24 VDC models with wide listed voltage range, filtered DC and FWR.
- Polarized inputs for compatibility with standard reverse polarity type supervision of circuit wiring by an alarm panel.

## ORDERING INFORMATION

Model Number	Voltage	dBA @ 10 Feet	Current (Amps)	Mounting Options*
MIZ-12-R	12 VDC	88	0.008	B, C, F, G
MIZ-12-W	12 VDC	88	0.008	B, C, F, G
MIZ-24-R	24 VDC	90	0.008	B, C, F, G
MIZ-24-W	24 VDC	90	0.008	B, C, F, G


 California  
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7135-0785:115

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(MIZ only)

**MEA**  
151-92-E Vol. II


- 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 AWG (3.25 mm<sup>2</sup>) to #18 AWG (0.75 mm<sup>2</sup>).
- Compliance with RFI limits in FCC Part 15, Class B for compatibility with sensitive detection and communication circuits.

**Model code suffixes:** R = red plate; W = white plate.

For descriptions of **MOUNTING OPTIONS**, refer to Fire•Lite data sheet DF-51744, derived from Wheelock #S7000.

\* Use 3.5" (8.89 cm) deep backbox on all MIZ products when EMT conduit is used.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact **Fire•Lite Alarms**, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll Free FAX: (877) 699-4105, FAX Back:(888) 388-3299  
WEB: www.firelite.com

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## **⚠️ WARNING!**

PLEASE READ THESE SPECIFICATIONS AND INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING 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, SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

## **SPECIFICATION INFORMATION**

### **General Notes:**

- 1) Mini-Horn models 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.
- 2) Rated input voltage (either filtered DC or unfiltered full-wave-rectified FWR): 24 VDC MIZ Series Signals are UL listed over a voltage range from 20 VDC to 31 VDC. 12 VDC MIZ Series Signals are UL listed over a voltage range of 12 VDC to 15.6 VDC. Check the minimum and maximum output of the power supply and standby battery and subtract the voltage drop from the circuit wiring resistance to determine the applied voltage to the strobes.

## **⚠️ WARNING!**

ALTHOUGH UL TESTING HAS VERIFIED THAT THESE PRODUCTS FUNCTION EVEN AT 80% OF THEIR MINIMUM RATING AND 110% OF THEIR MAXIMUM RATING, WHELOCK STRONGLY RECOMMENDS THAT THE VOLTAGE APPLIED TO THESE PRODUCTS BE WITHIN THEIR RATED INPUT VOLTAGE RANGE. THE APPLICATION OF IMPROPER VOLTAGE MAY RESULT IN DEGRADED OPERATION OR DAMAGE TO THESE PRODUCTS.

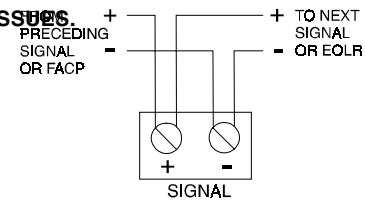
## **⚠️ WARNING!**

CONTACT WHELOCK FOR "INSTALLATION INSTRUCTIONS" AND "GENERAL INFORMATION" SHEET 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 DEVICES CONNECTED TO SYSTEM PRIMARY AND SECONDARY POWER SOURCES
- FUSE RATINGS ON SIGNALING CIRCUITS TO HANDLE MAXIMUM INRUSH OR PEAK CURRENTS FROM ALL DEVICES ON THOSE CIRCUITS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES

## **WIRING DIAGRAM (for all models):**

*NOTE: Do NOT loop wires; use In-and-Out wiring method.*



## **MOUNTING NOTES**

## **⚠️ CAUTION!**

The mounting options reference the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product. Although the limits given for each mounting option comply with the National Electrical Code (NEC), Wheelock recommends use of the largest backbox option shown and the use of approved stranded field wires, whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.

- 1) Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product.
- 2) DO NOT pass additional wires (used for other than the signaling device) through the backbox. Such additional wires could result in insufficient wiring space for the signaling device.
- 3) For fire alarm applications using white MIZ Horns, a red "Fire" label is provided. Affix this label to the front of the mounting plate to identify the function of the alarm signal.

## **ARCHITECTS' AND ENGINEERS' SPECIFICATIONS**

The notification appliance shall be a Wheelock MIZ Series audible device or equivalent. Notification appliance shall be electronic and use solid state components. Electromechanical alternatives are not approved. Each sound pressure measurement at 10 feet shall be 90 dBA minimum at 24 VDC and 88 dBA minimum at 12 VDC. 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 AWG (3.25 mm<sup>2</sup>) to #18 AWG (0.75 mm<sup>2</sup>) wiring. • The horn appliances may be installed indoors for surface or flush mounting. They shall be mounted to standard electrical hardware, requiring no additional trimplate or adapter.

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 products offered by Wheelock, specifications and product availability are subject to change without notice in accordance with Wheelock standard terms and conditions.*