Cooper-Wheelock
MIZ-24

Description

Cooper-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 Mini-Horns produce high sound output (90 dBA at 10 feet [3.048 m] with minimum current draw, 12 milliamperes at 24 volts. All Mini-Horn models are designed for easy installation with convenient mounting on standard single-gang boxes. They are ruggedly constructed of high-impact thermoplastic and are available in either fire-alarm red or off white to blend with the 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) and ANSI 117.1 (the American National Standard of Accessible and Usable Buildings and Facilities).

The MIZ Series signals are available for 24 VDC and may be used with filtered or unfiltered (full-wave rectified) input voltages. MIZ Series Signals have IN/OUT wiring terminals that accept 12 to 18 AWG wire at each terminal. Inputs are polarized for use on supervised circuits.

Ordering Information

Model Number	Voltage	dBA @ 10 Feet	Current (Amps)	Mounting Options*
MIZ-24-R	24 VDC	90	0.024	B, C, F, G
MIZ-24-W	24 VDC	90	0.024	B, C, F, G

Mode code suffixes: R = red plate; W = white plate.
For descriptions of Mounting Options, refer to Cooper-Wheelock DataSheet S7000.
* Use 3.5" (8.89 cm) deep backbox on all MIZ products when EMT conduit is used.

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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.
- 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.
- Low-cost installation via standard electrical boxes. Attractive flush or surface mounting options.
- No additional trim plate required for flush mounting. Fast installation with In/Out screw terminals for 12 to 18 AWG wire.
- Compliance with RFI limits in FCC Part 15, Class B for compatibility with sensitive detection and communication circuits.

An ISO 9000-2000 Company

SIGNALING UL LISTED E5946 · FM APPROVED 0V1A5.AY · MEA Approved 151-92-E Vol. II · City of Chicago 7135-0785:115 · c UL US LISTED CS243

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Specifications

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. 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.

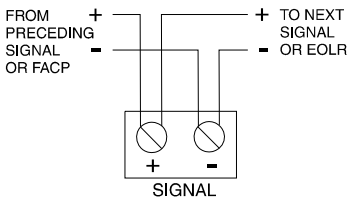
Although UL Testing has verified that these products function even at 80% of their minimum rating and 11% of their maximum rating, Cooper-Wheelock strongly recommends that the voltage applied to these products be within their rated input voltage range. The application of improper voltage may result in degraded operation or damage to these products.

Contact Cooper-Wheelock for installation instructions and general information sheets for 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 for notification appliance circuits to handle maximum inrush or peak currents from all devices on those circuits.

Wiring Diagram (all models):

Warning: Do NOT loop wires; use “In-and-Out” wiring method.



Mounting Notes

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). Cooper-Wheelock recommends the 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.

Architect and Engineer Specifications

The notification appliance shall be a Cooper-Wheelock MIZ Series audible device or approved 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 voltage is 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.

- The horn appliances may be installed indoors for surface or flush mounting. They shall be mounted on standard electrical hardware, requiring no additional trim plate or adapter.

Cooper-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).