

# Wheelock MB Series Motor Bells



## Description

Wheelock's Series MB Motor Bells provide a better engineered motor bell for fire and life safety alarm systems. The Wheelock Series MB Bells include higher dBA, low current draw, built-in trimplate for semi-flush mounting, low frequency aluminum shells, and low RFI noise. The motor for Series MB Bells is a durable, high torque permanent magnet motor selected for its high performance and long life.

Series RSSP Sync/Non-Sync retrofit plates are used in conjunction with the Series MB Motor Bell when combination appliances are required. The Series RSSP retrofit plates are available with either Multi-Candela or single candela strobes and easily mount to a 4" square or Wheelock SBL-2 backbox. All Series RSSP strobe appliances meet or exceed the requirements of NFPA 72 (National Fire Alarm Code), ANSI 117.1 (American National Standard for Accessible and Usable Buildings and Facilities), ADA (Americans with Disabilities Act) and UL Standard 1971 (Signaling Devices for the Hearing Impaired).

The Series RSSP retrofit plates may be synchronized when installed with the Wheelock Series SM, DSM, Sync Modules or a Power Supply with Wheelock's patented sync protocol. Wheelock's synchronized strobes offer an easy way to comply with ADA requirements concerning photo-sensitive epilepsy.

## Engineer's Specification

The alarm appliances shall be Wheelock Series MB vibrating Motor Bells or approved equal. They shall be UL Standard 464 Listed for Fire Protective Service. Shells shall be aluminum in 6" or 10" diameter. Sound output at 10 feet shall be 92 dBA. The bells shall incorporate a permanent magnet motor and suppression circuitry to minimize RFI. They shall include a built-in trimplate for semi-flush mounting to a standard 4" square backbox, or surface mounting to Wheelock's indoor BB backbox or outdoor WBB backbox. For bell strobe applications, retrofit plates Wheelock Series RSSP with Multi-Candela or Single Candela strobes shall be used. All bell models shall be polarized for line supervision and shall have screw terminals for in-out field wiring of #12 to #18 AWG wire. Operating voltage shall be nominal 24 VDC or 12 VDC. Finish on all models shall be red enamel.

## Features

- High sound output with low current draw.
- Low frequency aluminum shells for better audibility through walls, doors and other structures.
- 6" and 10" shell sizes in 12 or 24 VDC models.
- Integral RFI suppression to minimize included noise on the NAC circuit.
- Mounting options for surface, semi-flush, outdoor, and concealed conduit installation.
- Built-in trimplate makes semi-flush mounting simpler and less expensive
- Polarized for DC supervision of NAC circuits.
- Operates on filtered or unfiltered DC.

## Listings

Listings and approvals below apply to Wheelock MB Series Motor Bells. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file E5946
- ULC Listed: file CS243
- FM approved.
- MEA approved: file 151-92-E.
- CSFM approved: files 7135-0785:113.

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## Ordering Information

MODEL NUMBER	SHELL SIZE	INPUT VOLTAGE (VDC)	INPUT CURRENT
MB-G6-12-R	6"	12	0.060
MB-G6-24-R	6"	24	0.030
MB-G10-12-R	10"	12	0.060
MB-G10-24-R	10"	24	0.030

### NOTES :

1. Typical dBA at 10 feet is 92, measured in an anechoic chamber.
2. Mounting options are: D,E,J,K,N,R,S,Z
3. For bells at 12 VDC models are UL rated for 9.0 to 15.6 VDC and all 24 VDC models for 18.0 to 31.0

MODEL NUMBER	NOMINAL VOLTAGE (VDC)	STROBE CANDELA	AVERAGE CURRENT (amps) @ LISTED VDC
RSSP-24MCW-FR	24	15/30/75/110	.050/.081/.133/.161
RSSP-241575W-FR	24	15 (75 on axis)	0.065
RSSP-121575W-FR	12	15 (75 on axis)	0.170

1. Mounting options are: D,E,Z

2. Average current per actual Wheelock product testing at listed VDC. For rated average and peak current across UL regulated voltage range for both filtered DC and unfiltered VRMS, see Installation instructions.

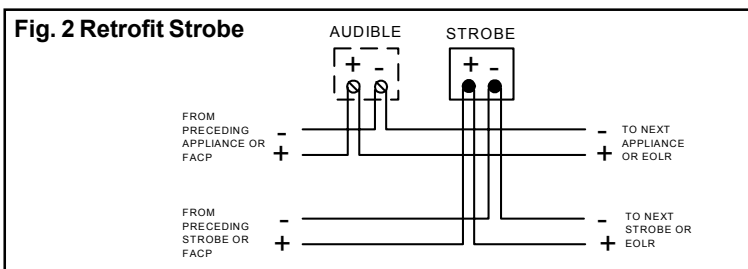
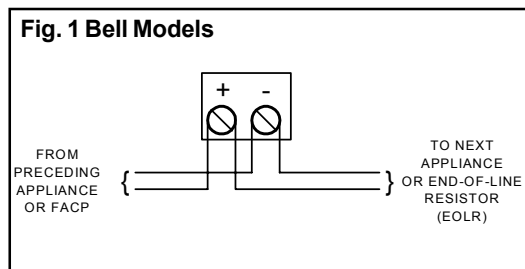
SYNC MODELS/POWER SUPPLY			
MODEL NUMBER	INPUT VOLTAGE (VDC)	AVERAGE MEAN CURRENT @ 24 VDC	MOUNTING OPTIONS**
SM-12/24-R	24	.028	W
DSM-12/24-R	24	.035	W

SM Sync Module is rated for 3.0 amperes @ 24VDC.

DSM Sync Module is rated for 3.0 amperes per circuit. The maximum number of interconnected DSM modules is twenty (20).

\*\* Refer to mounting options data sheet.

## Wiring Diagram



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).

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### WARNING

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