

## MBA Series

### Indoor/Outdoor Fire Alarm

### 12V DC Motor Driven Bells

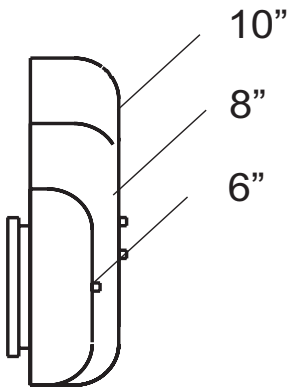
#### Description:

MBA Series Indoor/Outdoor bells utilize a specially designed gong, that gives out a loud mechanical resonant tone. This improvement is designed to make the whole series more effective and provide performance and dependability at a low current consumption. The bell design incorporates a micro-motor with built-in varistor suppression element, to reduce RFI and EMI interference found in today's highly integrated microprocessor driven control panels. The terminal design makes it convenient when wiring or trouble-shooting. The design features as a result saves you time and provides a more effective installation for maximum performance. The MBA series bells are made available in 6", 8" and 10" gong size and are painted red to enhance its appearance and provide a long durability.

#### Application:

The MBA series bells is recommended for use Indoors or Outdoors in areas such as: schools, corridors, apartments, office buildings, hotels, and any other application where effective audible warning is required and approved by Federal, State, or local authority having jurisdiction.

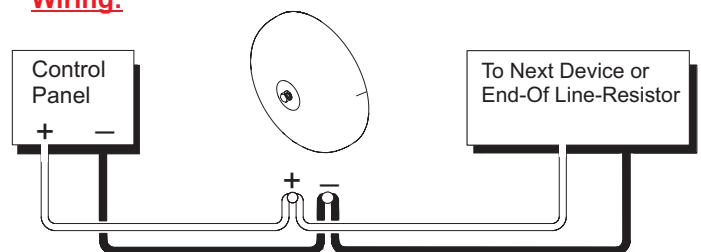
#### Gong Size 6, 8, and 10 inch:



#### Features:

- \* Indoor / Outdoor motor driven design
- \* UL Listed for fire protective service
- \* Polarized models with wide listed voltage range using filtered DC or unfiltered FWR input voltage.
- \* Terminals for fast in/out field wiring.
- \* High sound dB output with low current draw.
- \* Built-in trim plate for a clean flush mount installation.
- \* All models mount to a 4" square or single gang back box.
- \* A complete range of gong sizes 6", 8", and 10".
- \* Input terminals for field wiring using AWG 12 to 18.
- \* RFI and EMI noise suppression element built-in.
- \* Available in Red or Gray color.

#### Wiring:



**WARNING:**  
Conductor Size (AWG), Length and capacity should be taken into consideration prior to design and installation of these products, particularly in retrofit installations.

#### Ordering Information:

Model Number	Gong Size	Rated Voltage ( VDC )	Rated Current ( Amps )	Operating Range ( VDC )	UL Rating @12V DC ( dB )	ULC Rating @12V DC ( dB )	Operating Temperature Range
MBA-6-12	6"	12	0.029	8 ~ 17.5	84.4	94	32 F ~ 120 F ( 0 C ~ 49 C )
MBA-8-12	8"	12	0.029	8 ~ 17.5	87.4	86	
MBA-10-12	10"	12	0.030	8 ~ 17.5	88.9	90	

### Engineering Specifications:

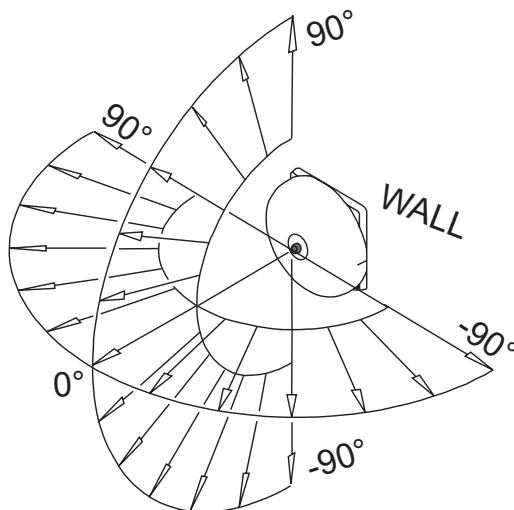
The alarm indicating appliance shall be AMSECO model MBA-Series or equivalent device. The Bell shall be listed for Indoor and Outdoor under UL Standard and shall be approved for fire protective service. The typical dB output shall be 83 ~ 96dB. The signaling device shall operate on 12VDC from a non-coded regulated DC supply or full-wave rectified, unfiltered supply. The signaling device shall be designed to produce a dB signal output of 83 ~ 86 with continuously applied minimum voltage. The signaling device shall be capable of mounting to a 4" x 4" x 1-1/2" standard back box.

### Specifications:

Model Number	Gong Size	Rated Current / Sound Output												
		8VDC				12VDC					17.5VDC			
		UL			Typical	UL			ULC	Typical	UL			Typical
		DC mA.	FWR mA.	dB	dB	DC mA.	FWR mA.	dB	dB	dB	DC mA.	FWR mA.	dB	dB
MBA-6-12	6"	29.1	30	79.3	83	33.7	35.5	84.4	94	88	56	56.9	89.3	93
MBA-8-12	8"	29	32	78.2	83	60	61	87.4	86	91	81	89	89.6	93
MBA-10-12	10"	30	34	82.7	86	68	69	88.9	90	93	89	93	91.9	96

### Horizontal Dispersion:

Angle	6"dB/m	8"dB/m	10"dB/m
-90	1.4	2.9	3.6
-75	1.1	4.3	8.9
-60	3.1	3.2	6.4
-45	0.3	1.6	3.9
-30	1.2	0.9	0.9
-15	1.8	0.2	1.2
0	0.0	0.0	0.0
15	4.9	-0.4	2.0
30	1.8	0.9	3.9
45	-0.1	1.1	5.1
60	2.8	2.4	6.3
75	3.7	3.3	6.0
90	-0.2	2.7	6.4

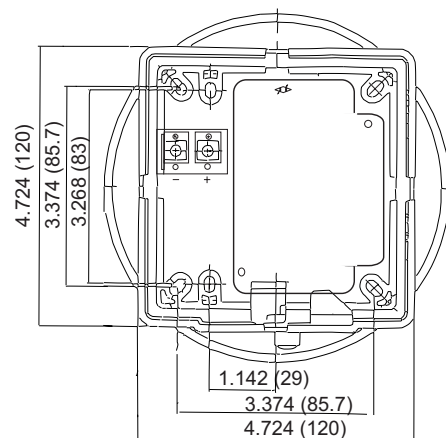
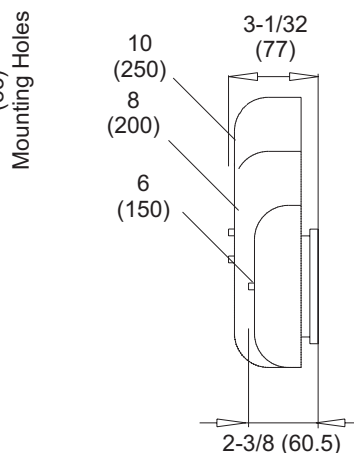
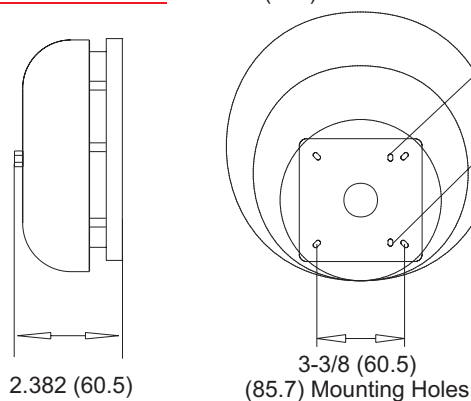


### Vertical Dispersion:

Angle	6"dB/m	8"dB/m	10"dB/m
90	0.4	0.4	0.8
75	-0.5	0.3	3.0
60	1.2	1.1	4.5
45	-0.2	1.0	3.7
30	-0.9	-1.2	0.4
15	-1.2	-0.1	0.5
0	0.0	0.0	0.0
-15	-2.3	-0.7	-1.5
-30	-2.0	-0.6	-0.5
-45	0.3	0.8	1.6
-60	-0.5	2.0	3.8
-75	-2.6	3.3	3.3
-90	-2.7	2.5	1.5

### Dimensions:

Inches (mm)



### Mounting Options:

