

**Features**

- Listed for indoor and outdoor use
- Outdoor use requires BBK-1 or HC-BB weatherproof back box
- Indoor use mounts directly to standard 4” box
- Low current draw
- High dB output
- AC and DC models
- DC models are motor driven, polarized, and have built in transient protection for supervised alarm circuits
- Available in 6”, 8” and 10” sizes



\* ULC on PDC-DC Only

**Description**

These vibrating type bells are designed for use as fire or general signaling devices. They have low power consumption and high decibel ratings. The unit mounts on a standard 4” (101mm) square electrical box for indoor use or on a model BBK-1 or HC-BB weatherproof backbox for outdoor applications. Weatherproof backbox model BBK-1 or HC-BB, Stock No. 1500001.

**Notes**

1. Minimum dB ratings are calculated from integrated sound pressure measurements made at Underwriters Laboratories as specified in UL Standard 464. UL temperature range is -30° to 150°F (-34° to 66°C)
2. Typical dB ratings are calculated from measurements made with a conventional sound level meter and are indicative of output levels in an actual installation.
3. ULC only applies to PDC-DC bells.

| Size inches (mm) | Voltage | Model Number | Stock Number | Current (Max.) | Typical dB at 10 ft. (3m) (2) | Minimum dB at 10 ft. (3m) (1) |
|------------------|---------|--------------|--------------|----------------|-------------------------------|-------------------------------|
| 6 (150)          | 12VDC   | PDC-6-12     | 1750500      | 200mA          | 96                            | 76                            |
| 8 (200)          | 12VDC   | PDC-8-12     | 1750502      | .200mA         | 96                            | 77                            |
| 10 (250)         | 12VDC   | PDC-10-12    | 1750504      | .200mA         | 96                            | 78                            |
| 6 (150)          | 24VDC   | PDC-6-24     | 1750501      | .20mA          | 95                            | 77                            |
| 8 (200)          | 24VDC   | PDC-8-24     | 1750503      | 20mA           | 83                            | 79                            |
| 10 (250)         | 24VDC   | PDC-10-24    | 1750505      | 20mA           | 85                            | 80                            |
| 6 (150)          | 24VAC   | PBA246       | 1806024*     | .17A           | 91                            | 78                            |
| 8 (200)          | 24VAC   | PBA248       | 1808024*     | .17A           | 94                            | 77                            |
| 10 (250)         | 24VAC   | PBA2410      | 1810024*     | .17A           | 94                            | 78                            |
| 6 (150)          | 120VAC  | PAC1206      | 1826120      | .05A           | 98                            | 83                            |
| 8 (200)          | 120VAC  | PAC1208      | 1828120      | .05A           | 98                            | 84                            |
| 10 (250)         | 120VAC  | PAC12010     | 1821120      | .05A           | 98                            | 86                            |

All DC bells are polarized and have built-in transient protection. \* Does not have ULC listing.

**Technical Specifications**

|                           |   |
|---------------------------|---|
| Dimensions                | 6” (150mm), 8” (200mm) and 10” (250mm)  |
| Enclosure                 | Cover: Steel Finish: Red Powder Coat<br>Base: non-corrosive composite material<br>All parts have corrosion resistant finishes<br>Model BBK-1 or HC-BB weatherproof backbox (optional) |
| Voltages Available        | 24VAC<br>120VAC<br>12VDC (10.2 to 15.6) Polarized<br>24VDC (20.4 to 31.2) Polarized   |
| Environmental Limitations | Indoor or outdoor use (See Note 1)<br>-40° to 150°F (-40° to 66°C)<br>(Outdoor use requires weatherproof backbox.)  |
| Termination               | AC Bells - 4 No. 18 AWG stranded wires<br>DC Bells - 18 AWG stranded wire   |
| Service Use               | NFPA 13, 72, local AHJ  |

\*Specifications subject to change without notice.

**⚠ WARNING**

- Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.
- Shock hazard. Disconnect power source before servicing. Serious injury or death could result.
- Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

**⚠ WARNING**

In indoor or wet installations, bell must be mounted with weatherproof backbox, BBK-1 or HC-BB. Standard electrical boxes will not provide a weatherproof enclosure. If the bell and/or assembly is exposed to moisture, it may fail or create an electrical hazard.

## Installation

The bell shall be installed in accordance with NFPA 13, 72, or local AHJ. The top of the device shall be no less than 90" AFF and not less than 6" below the ceiling.

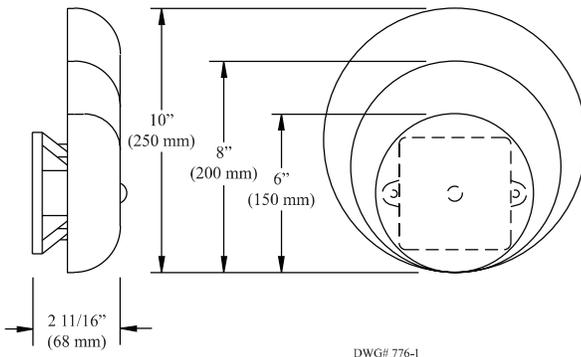
1. Remove the gong.
2. Connect wiring (see Fig. 3).
3. Mount bell mechanism to backbox (bell mechanism must be mounted with the striker pointing down).
4. Reinstall the gong (be sure that the gong positioning pin, in the mechanism housing, is in the hole in the gong).
5. Test all bells for proper operation and observe that they can be heard where required (bells must be heard in all areas as designated by the authority having jurisdiction).

**⚠ WARNING**

Failure to install striker down will prevent bell from ringing.

## Bell Dimension Inches (mm)

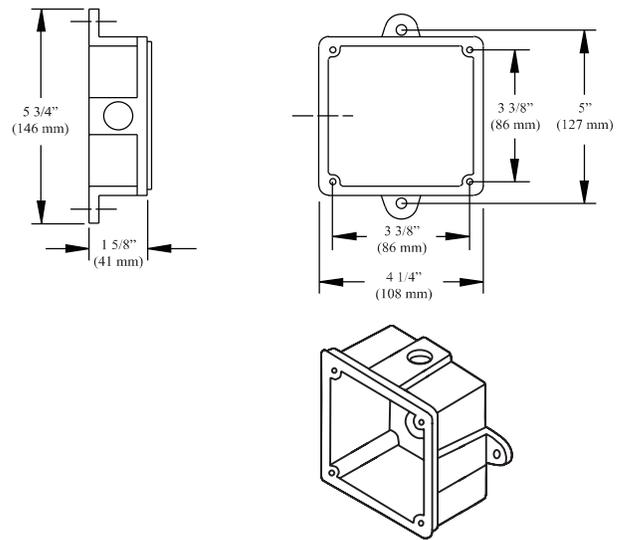
Fig 1



## Weatherproof Backbox Dimensions Inches (mm)

MODEL BBK-1 OR HC-BB

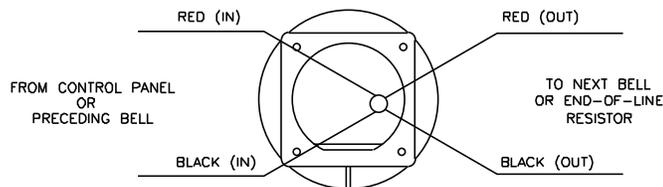
Fig 2



## Wiring Rear View

Fig 3

### D.C. BELLS (OBSERVE POLARITY)

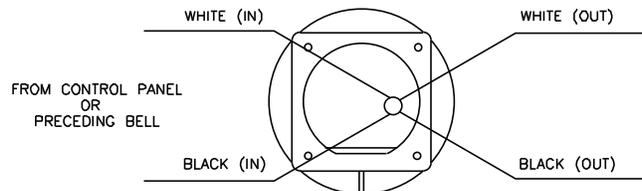


**CAUTION:**  
WHEN ELECTRICAL SUPERVISION IS REQUIRED USE IN AND OUT LEADS AS SHOWN.

NOTES:

1. OBSERVE POLARITY TO RING D.C. BELLS.
2. RED WIRES POSITIVE (+).
3. BLACK WIRES NEGATIVE (-).
4. EOL RESISTOR IS SUPPLIED BY FIRE ALARM CONTROL PANEL.

### A.C. BELLS



**CAUTION:**  
WHEN ELECTRICAL SUPERVISION IS REQUIRED USE IN AND OUT LEADS AS SHOWN.

NOTES:

1. WHEN USING A.C. BELLS, TERMINATE EACH EXTRA WIRE SEPARATELY AFTER LAST BELL.