


*Thank you for using our products.*

**INSTALLATION INSTRUCTIONS  
 AC BELLS**

*Use this product according to this instruction manual. Please keep this instruction manual for future reference.*

**GENERAL:**

The 43T Bell Series is UL Listed under Standard 464 for Audible Signal Appliances. The 43T Bell Series is also ULC Listed under Standard CAN/ULC-S525-07 for Audible Signaling Appliances. The Bell's design features low power consumption with a high sound output, and includes suppression to minimize the RFI generated by the contacts. The Bells are available in either an AC model, for indoor or outdoor use in vibrating modes. Models are available with a 6" or 10" gong as shown below. The various mounting options available for the Bell Series, makes for a convenient and economical installation. The 43T Bell is suitable for outdoor use with the WBB Weatherproof backbox (see Mounting Option D).

**NOTE:** All **CAUTIONS** and **WARNINGS** are identified by the symbol . All warnings are printed in bold capital letters.

**⚠ WARNING: PLEASE READ THESE INSTRUCTIONS CAREFULLY. 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.**

**⚠ WARNING: THE 43T HORN APPLIANCE IS A "FIRE ALARM DEVICE – DO NOT PAINT."**

**SPECIFICATIONS:**

<i>Table 1: Ratings Per UL/ULC</i>								
Model Number	Type	Gong Size	Rated Voltage (VRMS)	UL/ULC Voltage Range (VRMS)	Maximum RMS Current	dBA at 10 Feet		Mounting Options
						ULC Anechoic	UL 464 Reverberant	
43T-G6-24	AC Vibrating	6"	24	16.0-33.0	0.666A	85	85	A,B,C,D
43T-G6-115		6"	115	96.0-132.0	0.117A	85	85	A,B,C,D
43T-G10-24		10"	24	16.0-33.0	0.666A	86	88	A,B,C,D
43T-G10-115		10"	115	96.0-132.0	0.117A	86	88	A,B,C,D

<i>Table 2B: ULC Directional Characteristics</i>		
Axis	dBA	Angle
Horizontal	-3dBA	86 degrees left and right
	-6dBA	90 degrees left and right
Vertical	-3dBA	86 degrees up and down
	-6dBA	90 degrees up and down

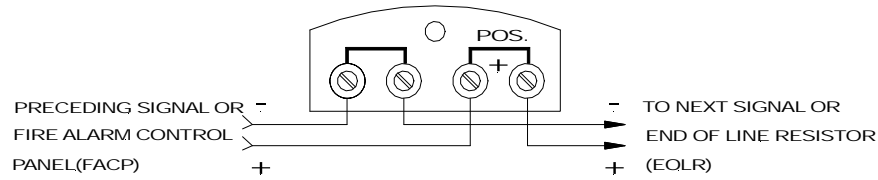
**⚠ WARNING: FOR UL/ULC APPLICATIONS THESE APPLIANCES WERE TESTED TO THE OPERATING VOLTAGE LIMITS OF 16-33 VOLTS FOR 24V MODELS OR 96-132V FOR 115V MODELS. DO NOT APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEM OPERATION.**

**⚠ WARNING: MAKE SURE THAT THE TOTAL RMS CURRENT REQUIRED BY ALL APPLIANCES THAT ARE CONNECTED TO THE SYSTEM'S PRIMARY AND SECONDARY POWER SOURCES DO NOT EXCEED THE POWER SOURCES' RATED CAPACITY OR THE CURRENT RATINGS OF ANY FUSES ON THE CIRCUITS TO WHICH THESE APPLIANCES ARE WIRED. OVERLOADING POWER SOURCES OR EXCEEDING FUSE RATINGS COULD RESULT IN LOSS OF POWER AND FAILURE TO ALERT OCCUPANTS DURING AN EMERGENCY, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**

When calculating the total currents: Use Table 1 to determine the highest value of "RMS Current" for an individual bell (across the expected operating voltage range of the bell), then multiply these values by the total number of bells; be sure to add the currents for any other appliances, powered by the same source and include any required safety factors.

**⚠ WARNING: 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 SIGNALING APPLIANCE.**

**WIRING DIAGRAM:**



- Remove bell shell (Do not mix shells from other units.)
- Connect Wiring (Refer to Wiring Diagram.)
- Mount Bell To Backbox Using Screws Supplied With Unit.
- Reinstall Bell Shell (Note keyhole alignment.)

**NOTE:** Wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, Section 32.

**MOUNTING OPTIONS:**

<p style="text-align: center;"><b><u>BASIC BELL</u></b></p> <p>BASIC UNITS ARE SUPPLIED WITH (4) SCREW TERMINALS FOR CONNECTION TO THE POWER SOURCE. (2) #8-32 SCREWS ARE PROVIDED WITH EACH FOR MOUNTING.</p> <p style="text-align: center;">GUIDE PIN</p>	<p style="text-align: center;"><b><u>BELL SHELL MOUNTING</u></b></p> <p style="text-align: center;">GUIDE PIN ALIGN PIN HOLE WITH GUIDE PIN</p>	<p style="text-align: center;"><b><u>A SEMI-FLUSH MOUNTING</u></b></p> <p>STANDARD 4" SQUARE BACKBOX TO BE MOUNTED IN WALL</p> <p style="text-align: center;">#8-32 SCREWS</p> <p style="text-align: center;"><u>MAXIMUM NUMBER OF CONDUCTORS</u> AWG #18    AWG #16    AWG #14    AWG #12 4            4            4            4</p>
<p style="text-align: center;"><b><u>B SURFACE MOUNTING</u></b></p> <p>STANDARD 4" SQUARE BACKBOX TO BE MOUNTED ON WALL SURFACE</p> <p style="text-align: center;">#8-32 SCREWS</p> <p style="text-align: center;"><u>MAXIMUM NUMBER OF CONDUCTORS</u> AWG #18    AWG #16    AWG #14    AWG #12 4            4            4            4</p>	<p style="text-align: center;"><b><u>C CONCEALED CONDUIT MOUNTING</u></b></p> <p>ADAPTOR PLATE WITH #8-32 &amp; #6-32 SCREWS &amp; BUSHING</p> <p>EXISTING BOX IN WALL</p> <p style="text-align: center;">#8-32 SCREWS</p> <p style="text-align: center;"><u>MAXIMUM NUMBER OF CONDUCTORS</u> AWG #18    AWG #16    AWG #14    AWG #12 4            4            4            4</p>	<p style="text-align: center;"><b><u>D WEATHER RESISTANT MOUNTING * (WBB)</u></b></p> <p>WEATHER RESISTANT BACKBOX TO BE MOUNTED ON WALL SURFACE</p> <p>1/2" CONDUIT ENTRANCE ON TOP</p> <p style="text-align: center;">#8-32 SCREWS</p> <p style="text-align: center;"><u>MAXIMUM NUMBER OF CONDUCTORS</u> AWG #18    AWG #16    AWG #14    AWG #12 4            4            4            4</p>

\* Suitable for outdoor use with the WBB Weatherproof backbox (see Mounting Option D).

**MOUNTING PROCEDURES:**

1. For weather resistant installation, use outdoor mounting option. Outdoor backbox must be mounted vertically with "TOP" as marked to allow any moisture or condensation to drain properly through drain holes on bottom of backbox.
2. Each bell mechanism is adjusted to operate only with the shell provided. Do not mix shells and mechanisms during installation. Do not readjust bell mechanisms during installation.
3. Each input terminal accepts one lead for in-out wiring of 12-22 AWG wire. Strip wire leads approximately 1/2" for connection to terminals. Break wire run to provide electrical supervision.
4. All bells will operate on "coded systems" up to 2 on-off cycles per second.
5. The polarity shown in the wiring diagram is for proper operation of the appliances in alarm mode. For supervision mode, the polarity should be reversed.
6. Anechoic dB ratings are for "free field" (anechoic) conditions. Typical indoor sound output is usually higher than rated anechoic dB.
7. Backboxes for all bells should be securely mounted. Looseness may degrade sound output. Conduit entrance to backboxes should be selected to insure sufficient wiring clearance.

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