



Description

Mircom's SP-Series 4" Smart Silenceable Speakers are designed to work with Mircom's QX-5000 Emergency Zoned Audio System for installations where it is necessary to provide silencing and resound of a local fire alarm speaker. The QX-5000 zoned audio system requires a QMP-5100A Zoned Paging module to operate with the silenceable speakers. In addition all of the silenceable speakers are compatible with Mircom's SIS-204 and SISA-204 Speaker Isolators.

The 4" smart silenceable speakers are equipped with an integral or remote switch. The SP-404SW-70A (Round) and SP-504SW-70A (Square) speakers come equipped with a built-in silence switch. The SP-404-70A (Round) and SP-504-70A (Square) speakers require the use of the SSW-100 Remote Silence Switch Module. The SSW-100 mounts in a standard single gang electrical box. Both the speakers with the built-in silence switch and the SSW-100 remote silence switch are equipped with a red LED indicator that follows the status of the signal circuit. A push-button switch is provided for local silencing of the in-suite speaker(s).

The smart silenceable speakers obtain power from the QX-5000 audio system's 70-volt audio line, thus eliminating the need for additional wiring. The silence circuitry adds $\frac{1}{4}$ watt to the tap selected. For example, a speaker tapped at $\frac{1}{4}$ watt would be calculated at $\frac{1}{2}$ watt. In addition, Mircom's smart silenceable speakers allow for the silencing of non-smart speakers in the same suite. This means that only one smart speaker is required in the suite, allowing for the balance of the in-suite speakers to be conventional 70-volt speakers.

The SP-Series 4" Speakers consist of a loudspeaker, 6 oz. magnet, a low profile constant voltage line matching transformer, a D.C. blocking capacitor and an all steel speaker baffle finished in an off white colour. The 70 volt transformer is of the matching type and includes output power taps of $\frac{1}{4}$, $\frac{1}{2}$, 1 and 2 watt. Tap selection is easy by wiring into the appropriate slot on the speaker's terminal block.

Features

- Available with the "silence switch" either on the baffle or mounted remotely
- Designed to work with Mircom's QX-5000 Zoned Audio System (requires QMP-5100A)
- Can be used with Digitized Voice Messaging
- Compatible with the SIS-204 and SISA-204 Speaker Isolators
- 70 volt line matching transformer
- High dBA output (over 90 dBA at 10 feet @ 2 watts)
- Multiple output taps. Selection for $\frac{1}{4}$, $\frac{1}{2}$, 1 or 2 watts
- Off white speaker baffle
- Round or square baffles
- Supports additional non-smart in-suite speakers
- Requires no additional wires to provide the silenceable feature

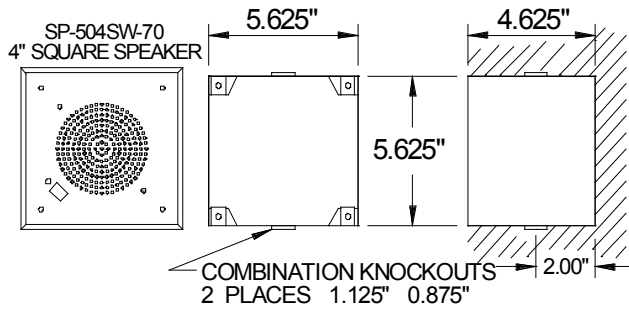
Operation

Activation of the silence switch will silence the connected speaker(s) for not more than 10 minutes before resounding. When a paging message is initiated from the QMP-5100A, a 3 second pre-announce tone is used to reactivate the speaker(s) to allow for the paging message to be heard. The speaker will resound after the page is completed. In addition, when the timer expires, the speaker will resound if the alarm signal is still active. The speaker may be re-silenced in the same manner. The speaker must sound for 10 seconds before it can be silenced.

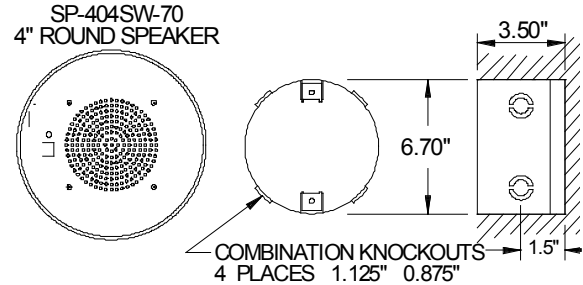
The speaker will return to "normal mode" (if previously silenced) automatically after the audio signal has ceased for more than 30 seconds. If a subsequent alarm occurs, prior to the 30 second time period (if previously silenced), the speaker will not resound until the silence time period has elapsed. Any subsequent alarm that is processed after the fire alarm panel has been silenced beyond the 30 second time period will sound immediately.

Installation Instructions

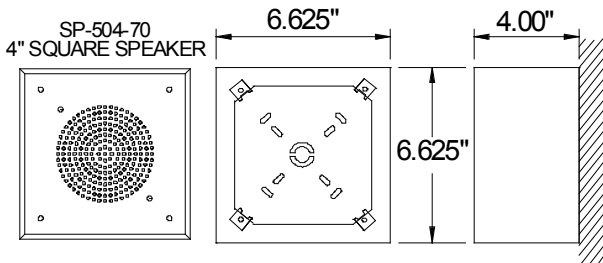
The silenceable speakers are mounted to the appropriate backboxes using the 4 screws provided. The 4" round speakers are mounted to the IB-104A backbox for flush mounting. The 4" square speakers can be mounted to either the IB-204 backbox for flush mounting or the IB-404 backbox for surface mounting.



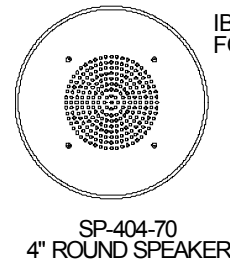
IB-204 FLUSH MOUNTING BACKBOX
FOR SP-504-70 SPEAKERS
SP-504SW-70 SPEAKERS



IB-104A FLUSH MOUNTING BACKBOX
FOR SP-504-70 SPEAKERS
SP-504SW-70 SPEAKERS



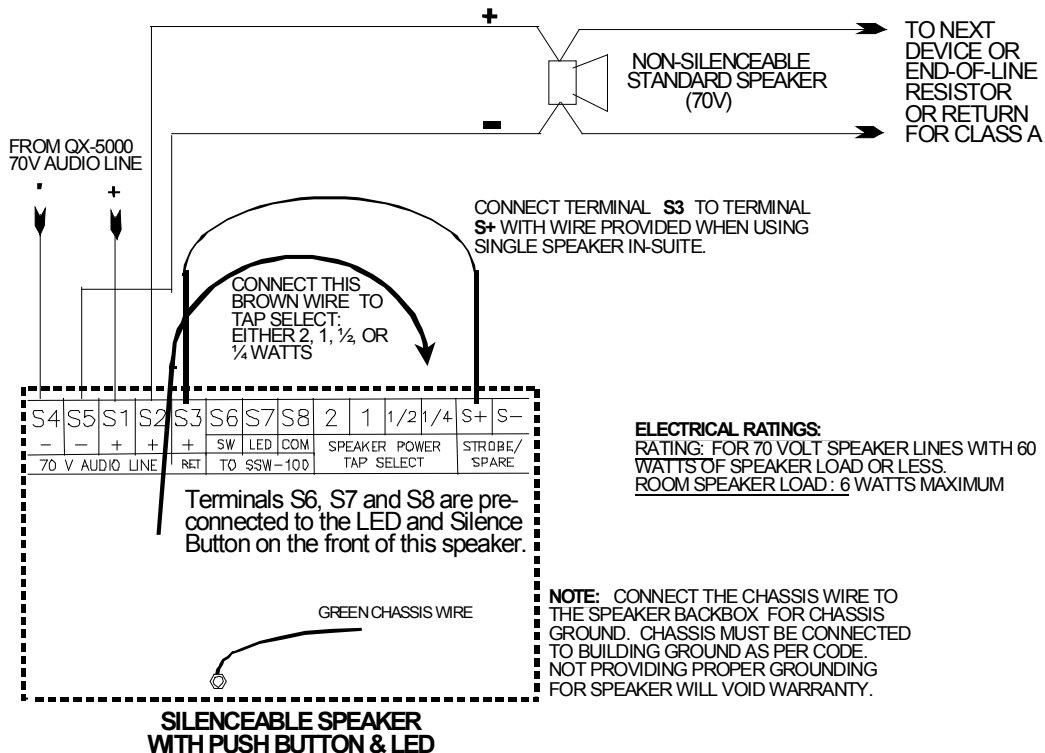
IB-404 SURFACE MOUNTING BACKBOX
FOR SP-504-70 SPEAKERS
SP-504SW-70 SPEAKERS



SP-404-70
4" ROUND SPEAKER

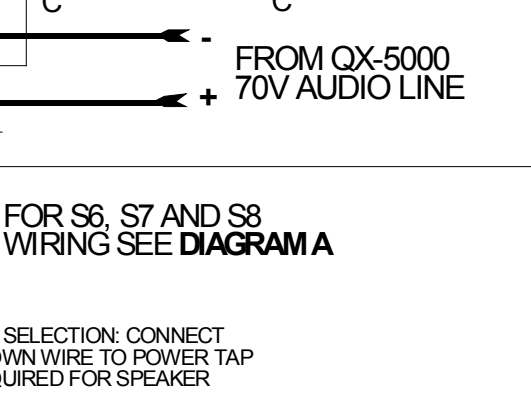
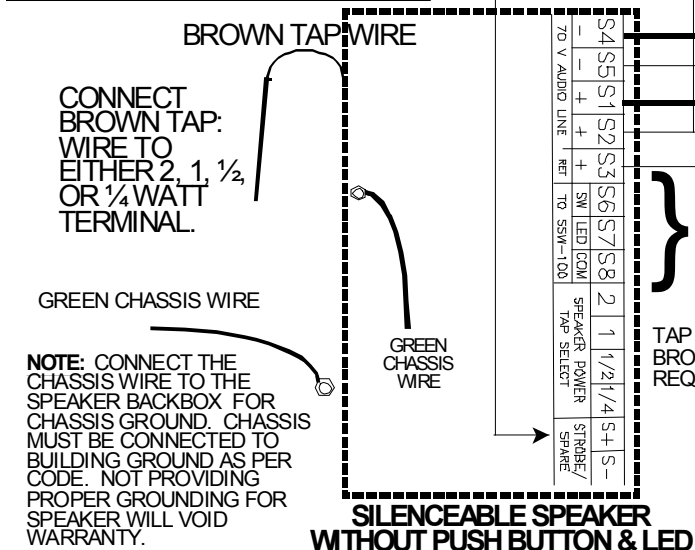
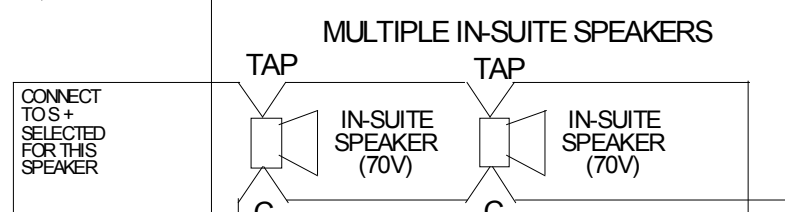
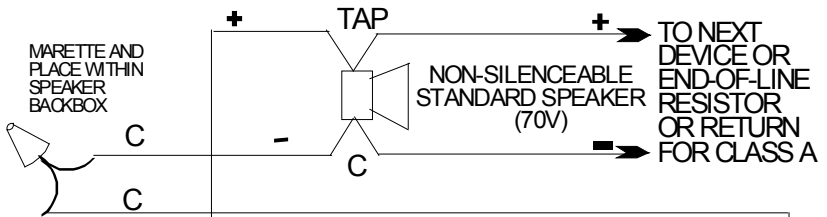
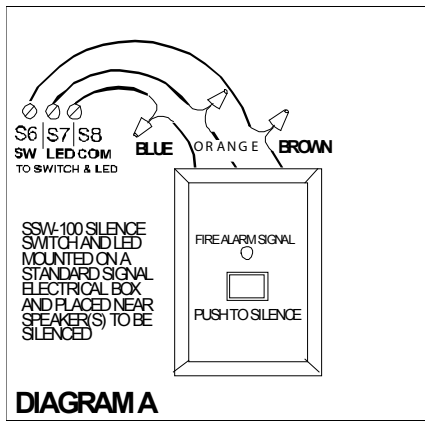
Wiring Instructions

Wiring Silenceable Speakers with built-in Silence switch. Models SP-404SW-70A (Round) and SP-504SW-70A (Square)



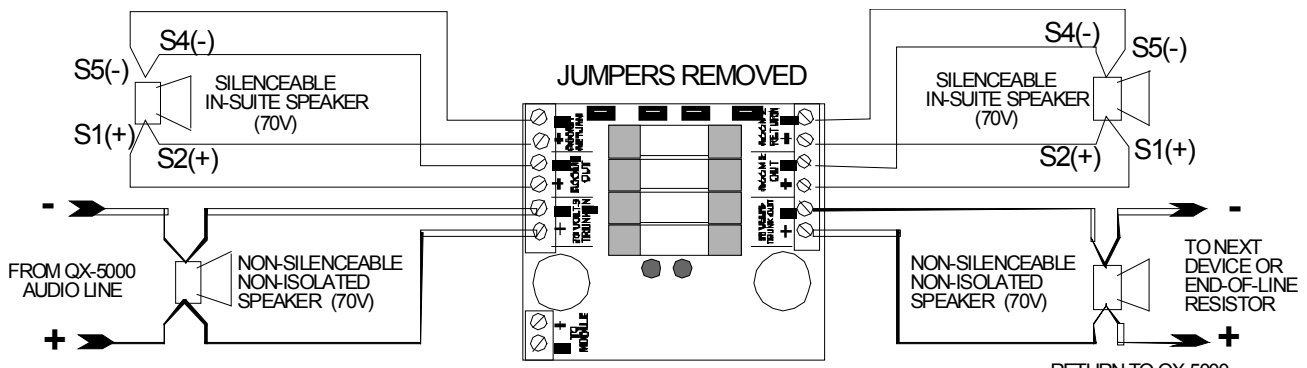
NOT TO BE USED FOR INSTALLATION PURPOSES.
THIS INFORMATION IS FOR MARKETING PURPOSES ONLY AND NOT INTENDED TO DESCRIBE THE PRODUCTS TECHNICALLY.

Wiring Silenceable Speakers via the SSW-100 Silence Switch.
Models SP-404-70A (Round) and SP-504-70A (Square)



ELECTRICAL RATINGS:
 RATING: FOR 70 VOLT SPEAKER LINES WITH 60 WATTS OF SPEAKER LOAD OR LESS.
 IN-SUITE SPEAKER LOAD: 6 WATTS MAXIMUM

Wiring Silenceable Speakers with an SIS-204 or SISA-204 Speaker Isolator Module



FUSES: LITTELFUSE 0.1A, 250V SLOW BLOW #312 100

ELECTRICAL RATINGS:
 RATING: FOR 70 VOLT SPEAKER LINES WITH 60 WATTS OF SPEAKER LOAD OR LESS.
 IN-SUITE SPEAKER LOAD: 6 WATTS MAXIMUM
 MAXIMUM NUMBER OF ISOLATORS ON A SPEAKER LINE: WITH SPECIFIED LITTELFUSE TYPE 312 FUSE.

Speaker Specifications

MODEL NUMBER	SPEAKER VOLTAGE (RMS)	SPEAKER dBA 10FT				Mounting Configurations		Baffle SHAPE
		WATT TAP		TYPICAL dBA				
		1/4 WATT	1/2 WATT	1 WATT	2 WATT			
SP-404-70A(W)	25	85	86	89	91	IB-104	N/A	ROUND
SP-404SW-70A(W)	70	85	86	89	91	IB-104	N/A	ROUND
SP-504-70A(W)	25	85	86	89	91	IB-204	IB-404	SQUARE
SP-504SW-70A(W)	70	85	86	89	91	IB-204	IB-404	SQUARE

dBA Sound Pressure Level is measured using the transformer tap shown at a distance of 10 feet (3 meters). This measurement is obtained in accordance with ULC Standard CAN/ULC-S541-M87.

NOTE: All Mircom enclosures are equipped with a ground screw hole. Each speaker unit is equipped with a ground wire.

Electrical Specifications

Input Voltages	70V RMS
Speaker Coil Impedance	8 Ohms
Power Taps	¼ watt, ½ watt, 1 watt, 2 watt
UL Frequency Range	400 to 4000 Hz
Speaker Frequency Range	320 to 11000 Hz
Standby Power	0.0 watt
Power Consumption in Alarm	¼ watt plus (add) wattage of power tap selected
Maximum Number of Silenceable Speakers on a circuit is limited by the available amplifier power	

Ordering Information

Model	Description
SP-404-70A(W)	In-suite Silenceable 4" Speaker, Round, 70V
SP-404SW-70A(W)	In-suite Silenceable 4" Speaker, Round, 70V with built-in Silence Switch
SP-504-70A(W)	In-suite Silenceable 4" Speaker, Square, 70V
SP-504SW-70A(W)	In-suite Silenceable 4" Speaker, Square, 70V with built-in Silence Switch
SSW-100	In-suite Silence Switch used with models: SP-404-70 and SP-504-70 Mounts into a single gang electrical box. Use Temco #2104-LLE or compatible device boxes.
IB-104A	4" Flush Backbox for Round Speakers
IB-204	4" Flush Backbox for Square Speakers
IB-404	4" Surface Backbox for Square Speakers



Canada

25 Interchange Way Vaughan, ON L4K 5W3
Telephone: (905) 660-4655 | Fax: (905) 660-4113

U.S.A.

4575 Witmer Industrial Estates Niagara Falls, NY 14305
Toll Free: (888) 660-4655 | Fax Toll Free: (888) 660-4113

www.mircom.com



THIS INFORMATION IS FOR MARKETING PURPOSES ONLY AND NOT INTENDED TO DESCRIBE THE PRODUCTS TECHNICALLY.

For complete and accurate technical information relating to performance, installation, testing and certification, refer to technical literature. This document contains intellectual property of Mircom. The information is subject to change by Mircom without notice. Mircom does not represent or warrant correctness or completeness. All rights reserved. All other trademarks and registered trademarks are properties of their respective owners.

CAT. 5710

Rev. 6