

UNIVERSAL MOUNT LOW PROFILE SPEAKER AND CEILING MOUNT LOW PROFILE SPEAKER/STROBE

MODELS

SSPKCLP*..... LOW PROFILE CEILING OR WALL MOUNT SPEAKER WITHOUT STROBE

SSPK24CLP*..... LOW PROFILE CEILING MOUNT SPEAKER WITH SELECTABLE STROBE

SSPKR24C*..... LOW PROFILE CEILING MOUNT SPEAKER WITH SELECTABLE STROBE AND RED LENS

* Includes one or more of the following designators, P (plain), A (ALERT), R (red) or W (white).

I. INTRODUCTION

The Gentex SSPKCLP/SSPK24CLP/SSPKR24C is a high quality speaker and speaker/strobe ANSI/UL Listed for fire protective signaling systems. The high intensity strobe utilizes a Xenon flash tube which generates a high-intensity light visible from all sides. The SSPK24CLP strobe is ANSI/UL Listed in compliance with ANSI/UL 1971, Signaling Appliances for the Hearing Impaired. The SSPKR24 strobe is ANSI/UL Listed in compliance with ANSI/UL 1638, Visual Signaling Appliances - Private Mode Emergency and General Signaling.

II. PRODUCT INFORMATION

The SSPKCLP/SSPK24CLP/SSPKR24 Series speaker and speaker/strobe offer a choice of field selectable power taps, 1/8, 1/4, 1/2, 1, 2 and 4 Watts for either 25v or 70.7v audio amplifiers. The SSPK24CLP speaker/strobe offers the option of a high intensity strobe which complies with ANSI/UL 1971. The SSPKR24 speaker/strobe offers the option of a high intensity strobe which complies with ANSI/UL 1638. The frequency range of the speakers is 400-4000Hz. All devices are suitable for line supervision. Speaker includes DC blocking capacitor which allows for supervision voltage of either polarity.

III. LOCATION

This appliance is intended for use in Fire Alarm Systems and is to be installed in accordance with this installation manual, the recommendation of the local authorities having jurisdiction, and other NFPA Standards that provide standards on notification appliances for protective signaling systems. The Gentex SSPKCLP/SSPK24CLP/SSPKR24 Series is intended for indoor installation only. This appliance is **not** listed for **outdoor** or drip proof applications.

SSPK24CLP PRODUCT INFORMATION

Room Spacing for Ceiling-Mounted Visible Appliances per NFPA 72, 2013 Edition				
Maximum Room Size		Minimum Required Light Output (Effective Intensity, Cd; One Light)		
		Maximum Ceiling Height		
Meters	Feet	10 Foot Ceiling	20 Foot Ceiling	30 Foot Ceiling
6.10 x 6.10	20 x 20	15	30	55
9.14 x 9.14	30 x 30	30	45	75
13.4 x 13.4	44 x 44	75	75	NA
15.2 x 15.2	50 x 50	NA	NA	95

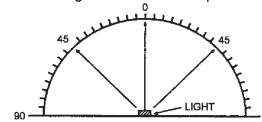
**Effective Intensity Requirements for Sleeping Area

Visible Notification Appliance

Distance from Ceiling to Top of Lens	Intensity
greater than or equal to 24" (610mm)	110 Cd
less than 24" (610mm)	177 Cd

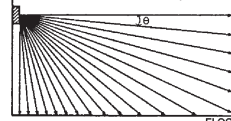
LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS - PER UL1971

wall and ceiling mount horizontal dispersion
ceiling mount vertical dispersion



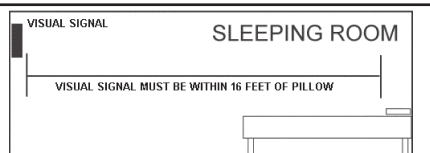
Degrees	% of Rating
0	100
5-25	90
30-45	75
50	55
55	45
60	40
65	35
70	30
75	25
80	20
85	15
90	10

wall mount vertical dispersion



Degrees	% of Rating
0	100
5-30	90
35	65
40	48
45	34
50	27
55	22
60	18
65	16
70	15
75	13
80	12
85	12
90	12

CAUTION: Strobe light must be installed within 16 feet of the pillow when used in a sleeping area.



⚠ WARNING The visual signal must be in the direct viewing area of the occupant in order to be seen.

⚠ WARNING Strobe light can not be seen when objects such as doors, furniture or walls block strobe light.

NOTICE: VISUAL SIGNALS FOR THE HEARING IMPAIRED ARE ONLY ONE METHOD OF ALERTING THE HEARING IMPAIRED. VISUAL SIGNALS MAY NOT BE THE PREFERRED METHOD FOR NOTIFYING ALL HEARING IMPAIRED INDIVIDUALS.

NOTICE: THE STROBE LIGHT MUST BE SEEN BY THE SLEEPING PERSON. IF THE PERSON HAS HEAD TURNED OR OTHERWISE UNABLE TO BE ALERTED BY VISUAL, THE STROBE WILL NOT BE EFFECTIVE.

⚠ WARNING Visual signal should **NEVER** be relied upon as the primary fire alert for the hearing impaired under these common sense conditions:

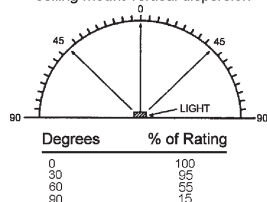
- Sleeping face down on the bedding or pillow
- Use of sleep medications of any kind
- Use of alcoholic beverages or recreational drugs
- Use of eye shades
- If there are tendencies of deep sleep conditions
- If a fire cuts power to AC circuits, the visual signal will not operate
- If person is not within line of sight of visual signals

Under these and other similar common situations an alternate fire alert method such as a non-hearing impaired attendant is needed. The visual signal only increases the chance of being alerted to the presence of fire. No system of this type can fully protect the hearing impaired in case of fire.

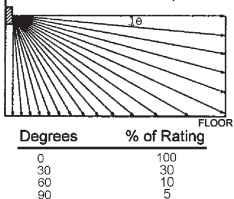
SSPKR24C PRODUCT INFORMATION

LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS - PER UL1638

wall and ceiling mount horizontal dispersion
ceiling mount vertical dispersion



wall mount vertical dispersion



Model	Color Lens
SSPKR24C	Red

IV. ELECTRICAL SPECIFICATIONS

CLEAR Lens Strobe Current Ratings

Use with SSPK24CLP Products

Candela	Regulated 24VDC Max. Operating Current (mA)	Regulated 24VFWR Max. Operating Current (mA)
15	120	190
30	120	191
75	200	277
95	220	298
115	290	418

RED Lens Strobe Current Ratings

Use with SSPKR24C Products

Candela	Regulated 24VDC Max. Operating Current (mA)	Regulated 24VFWR Max. Operating Current (mA)
15	128	220
30	128	220
75	225	306
95	235	402
115	341	444

Field Selectable Power Tap Selection

Voltage	1/8 Watt	1/4 Watt	1/2 Watt	1 Watt	2 Watt	4 Watt
25 Volts	74.6 dBA @ 10ft.	77.7 dBA @ 10ft.	80.5 dBA @ 10ft.	83.1 dBA @ 10ft.	85.6 dBA @ 10ft.	87.9 dBA @ 10ft.
70.7 Volts	73.7 dBA @ 10ft.	76.7 dBA @ 10ft.	79.6 dBA @ 10ft.	82.5 dBA @ 10ft.	85.4 dBA @ 10ft.	87.9 dBA @ 10ft.

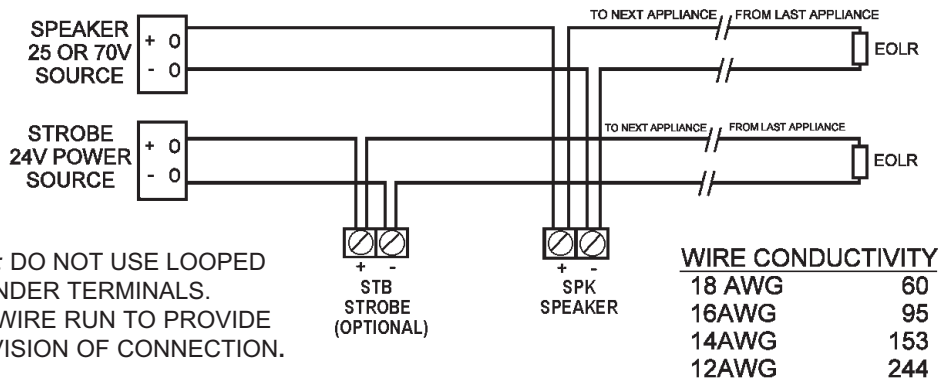
NOTICE: DC VOLTAGE RANGE LIMITS: 16-33V. FWR VOLTAGE RANGE LIMITS: 16-33V. THIS PRODUCT WAS ONLY TESTED TO THE STATED VOLTAGE RANGE(S); DO NOT APPLY 80% AND 110% OF THIS RANGE FOR SYSTEM OPERATION.

SYSTEM CONSIDERATIONS

- To select the proper wattage input for the speaker, move the jumper to the appropriate pin.
- Always maintain electrical isolation between speaker and strobe wiring on combination units.
- Do not exceed 130% of rated speaker voltage. If excessive distortion is heard, check amplifier for signal clipping. If clipping exists, reduce either amplifier input or gain.
- Four screws are provided, two for securing speaker to the back box and two for aesthetics. The two non-functional screws will be held in place by the pressure fit of the faceplate.

CAUTION

WHEN INSTALLING, ROUTE FIELD WIRING AWAY FROM SHARP PROJECTIONS, CORNERS AND INTERNAL COMPONENTS.



*MAX. WIRE DISTANCE (IN FEET) = $\frac{\text{PANEL VOLTAGE} - \text{DEVICE MINIMUM VOLTAGE}}{\text{TOTAL CURRENT DRAW}} \times \text{WIRE CONDUCTIVITY (STROBE ONLY)}$

* INCLUDES WIRE TO AND FROM APPLIANCE.

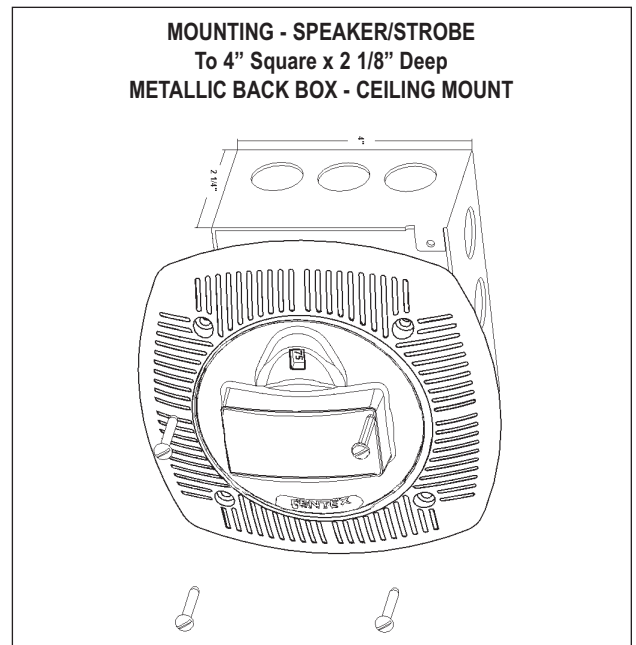
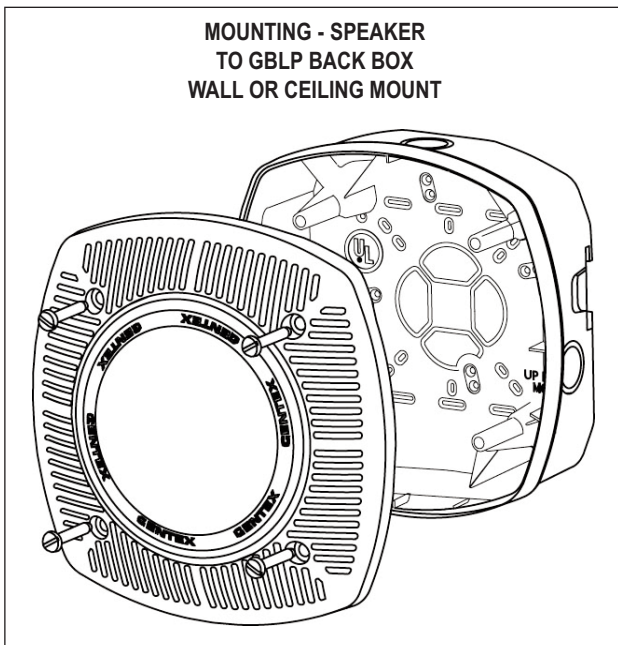
ASSUMES ALL APPLIANCES ARE AT THE END OF WIRE RUN (WORST CASE).

CAUTION: APPLIES ONLY TO REGULATED SUPPLIES.

NOTICE: ALL STROBES ARE DESIGNED TO FLASH AS SPECIFIED WITH CONTINUOUS APPLIED VOLTAGE. THIS APPLIANCE IS NOT RECOMMENDED FOR USE ON CODED OR PULSING SIGNALING CIRCUITS. HOWEVER, USE OF THE AVSM CONTROL MODULE IS PERMITTED TO SYNCHRONIZE THE STROBE.

NOTICE: REFERENCE AVSM CONTROL MODULE MANUAL (550-0284, DATED 2-1-03) FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS. AVSM MANUAL CAN BE OBTAINED AT [HTTP://WWW.GENTEX.COM](http://www.gentex.com) OR CALL GENTEX CORPORATION AT 1-800-436-8391.

V. MOUNTING ROUGH-IN BOX AND RUN WIRING

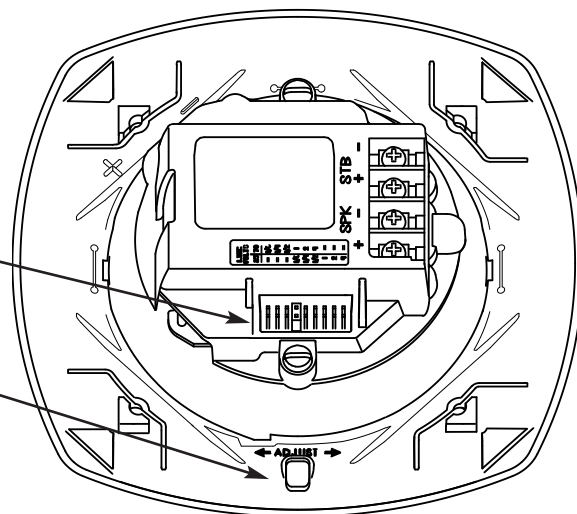


SSPKCLP FIELD SELECTABLE CANDELA SELECTOR

Adjust power taps using needle nose pliers.

Adjust intensity by inserting small flat blade screwdriver to turn dial. Displayed number will indicate selected candela.

NOTICE: FIELD SELECTABLE OPTIONS OF 15, 30, 75, 95 AND 115 CANDELA.



VI. CHECKOUT AND TROUBLESHOOTING

1. Supply power to the system control panel. The auxiliary signaling device should not be activated.
2. If the signal is activated:
 - a. Check all smoke and fire detectors in the system to make sure they have not been activated.
 - b. Check all wiring connections to make sure the signal detection circuits are not reversed or shorted together. Check wire color codes and traces.
3. To test the SSPKCLP Series and other signaling appliances, trip the auxiliary panel, activate alarm circuit at the main control panel or activate one of the fire detection units in the system. All auxiliary signals should be activated.
4. An operational test on this product should be conducted in accordance with National Standards or at a minimum annually and more often if dictated by local and state codes or authorities having jurisdiction.

SIGNALING APPLIANCE LIMITATIONS:

Your speaker meets or exceeds current audibility requirements of Underwriters Laboratories. However, if the appliance is located outside a bedroom it may not wake up a sound sleeper, especially if the room door is closed or only partially open.



WARNING

THIS APPLIANCE WILL NOT OPERATE WITHOUT ELECTRICAL POWER. AS FIRES FREQUENTLY CAUSE POWER INTERRUPTIONS, GENTEX SUGGESTS YOU DISCUSS FURTHER SAFEGUARDS WITH YOUR LOCAL FIRE PROTECTION SPECIALIST.

VI. TO RETURN AN APPLIANCE

Should you experience problems with your appliance, proceed as follows:

1. Turn off electrical power to the auxiliary alarm circuit.
2. Remove mounting screw and slide signal off from bracket.
3. Replace unit that was removed to restore wiring supervision and to eliminate system trouble alert.
4. Carefully pack the defective unit (the manufacturer cannot be responsible for consequential damage due to shipping or mis-handling). Include your return address and complete details as to the nature of the difficulties being experienced and date of installation.
5. Return to: Gentex Corporation, 10985 Chicago Dr., Zeeland MI 49464. Prior to returning, call the Gentex field service department at 1-800-436-8391 or e-mail FP_RMA@gentex.com to obtain a RMA number.

LIMITED WARRANTY

For a period of 36 months from the date of purchase or a maximum of 42 months from the date of manufacture, Gentex warrants to you the original purchaser that your appliance will be free from defects in workmanship, materials and construction under normal use and service. If a defect in workmanship, materials and construction should cause your appliance to become inoperative within the warranty period, Gentex will repair your appliance or furnish you with a new or rebuilt appliance without charge to you except for postage required to return the appliance to us. Gentex will not reimburse you for repairs or replacement parts provided by other parties. Your repaired or replacement appliance will be returned to you free of charge and it will be covered under the warranty for the balance of the warranty period.

The warranty is void if our inspection of your appliance shows that the damage or failure was caused by abuse, misuse, abnormal usage, faulty installation, improper maintenance or repairs other than those performed by us.

ANY WARRANTIES IMPLIED UNDER ANY STATE LAW INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLY ONLY FOR THE WARRANTY PERIOD SPECIFIED ABOVE. PLEASE NOTE THAT SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. GENTEX WILL NOT BE LIABLE FOR ANY LOSS, DAMAGE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE SALE, USE OR REPAIR OF THIS APPLIANCE. THE MAXIMUM LIABILITY OF GENTEX SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE APPLIANCE. PLEASE NOTE THAT SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

If a defect in workmanship, materials or construction should cause your appliance to become inoperative within the warranty period, you must return the appliance to Gentex postage prepaid. You must prove to the satisfaction of Gentex the date of purchase of your appliance. Warranty service may only be performed by Gentex personnel at Gentex's facilities in Zeeland, Michigan. You must also pack the appliance to minimize the risk of it being damaged in transit. You must also enclose a return address. Appliances returned for warranty service should be sent to: Gentex Corporation, 10985 Chicago Dr., Zeeland MI 49464. If we receive an appliance in a damaged condition as the result of shipping, we will notify you and you must seek a claim with the shipper.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Important Notice:

These materials have been prepared by Gentex Corporation ("Gentex") for informational purposes only, are necessarily summary, and are not purported to serve as legal advice and should not be used as such. Gentex makes no representations and warranties, express or implied, that these materials are complete and accurate, up-to-date, or in compliance with all relevant local, state and federal laws, regulations and rules. The materials do not address all legal considerations as there is inevitable uncertainty regarding interpretation of laws, regulations and rules and the application of such laws, regulations and rules to particular fact patterns. Each person's activities can differently affect the obligations that exist under applicable laws, regulations or rules. Therefore, these materials should be used only for informational purposes and should not be used as a substitute for seeking professional legal advice. Gentex will not be responsible for any action or failure to act in reliance upon the information contained in this material.