INSTALLATION SHEET #IS-ULD

ULD Series 8" Speaker Assemblies for Fire Protective Signaling

SIGNALING FIRE ALARM EQUIPMENT 28LO LISTED

Installation - Series ULD (28LO) Fire Protective Signaling Speaker

These speakers are intended to be employed in either of the following configurations:

A. For fire alarm signaling service in conjunction with a compatible Listed system control unit, the combination of which is intended to be installed as a combination system control in accordance with the applicable requirements of NFPA 72 and the local authorities having jurisdiction. The amplifier, in conjunction with the tone generator located in the control unit, provides the power and signal, either for the alarm evacuation and/or for voice communication.

B. For general (non-fire alarm) signaling service in conjunction with compatible Listed sound recording and reproducing equipment, the combination of which is intended to be installed in accordance with the applicable requirements of the National Electrical Code and the local authorities having jurisdiction. The amplifier or other sound reproducing equipment provides the power for voice communication or any other related function to the speakers.

Connection Notes: For the supervised fire system voice coil, parallel input leads are provided on Series ULD speakers for proper utilization of the electrical supervision scheme. Connect one pair (red and black) to the incoming line from the fire alert signal source or previous speaker. Connect the other pair (red and black) to the outgoing line to the next speaker or end-of-line termination device. A red jumper is connected to the 70.7V 0.5W tap when shipped from the factory. If desired, move the red jumper to a different transformer power tap lug. See "**Figure 1**" on this page for available transformer power taps.

Connection Notes: For the voice/music non-supervised voice coil, connect leads (white and black) to the incoming line from the signal source or previous speaker. A red jumper is connected to the 70.7V 0.5W tap when shipped from the factory. If desired, move the red jumper to a different transformer power tap lug. See "**Figure 1**" this page for available transformer power taps.

ULDWB82T572 ASSEMBLY

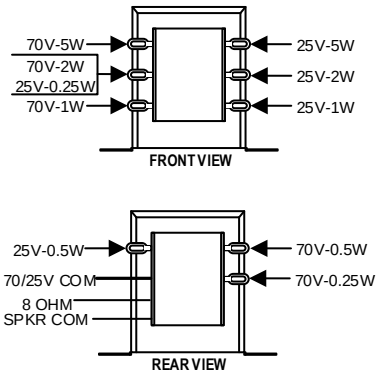
ULDSG82T572 ASSEMBLY

ELECTRICAL SPECIFICATIONS	
Frequency Response: 100Hz - 12kHz ± 20dB	Intended Use: Indoor Dry Locations
2kHz Dispersion at -6dB down points: With SG8 Grille:100 Degrees With WB8 Grille:100 Degrees	
Directional Characteristics Test With Full Power Pink Noise Input Measured at 3m: On Axis = 91.1dBA, -3dBA at 25° off axis, -6dBA at 55° degrees off axis, 84.1dBA at 90° off axis	
8C10DVC Driver Size: 8"	8C10DVC Impedance: 8 Ohms
8C10DVC Driver Power Rating: 15 watts RMS	8C10DVC Magnet: 10 oz. Ceramic
8C10DVC Driver Construction: Dual Paper Cone, Dual 1" Voice Coils, 20 Ga.Stamped Steel Basket	
Supervision Capacitor: 10uF 160V. Maximum Allowable Supervision Voltage: 100 VDC.	

ELECTRICAL AND AUDIBLE RATINGS		ULDWB82T572	ULDSG82T572
MAXIMUM VOLTAGE	TLM572 (#13456) TRANSFORMER TAP	UL dBA RATING AT 10FT.	UL dBA RATING AT 10FT.
70.7 V RMS	5.0 W.	88.8	88.8
	2.0 W.	85.2	85.2
	1.0 W.	82.4	82.4
	0.5 W.	79.6	79.6
	0.25 W.	76.4	76.4
25 V RMS	5.0 W.	88.5	88.5
	2.0 W.	85.1	85.1
	1.0 W.	82.3	82.3
	0.5 W.	79.5	79.5
	0.25 W.	76.2	76.2

Note: The UL dBA ratings given above are the low readings from 11 samples so they may not be as expected for one sample.

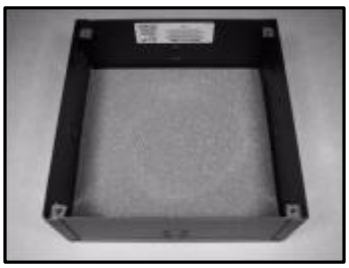
FIGURE 1
#13456
TRANSFORMER TAPS



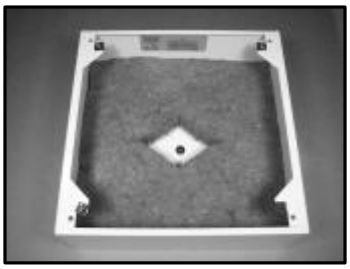
XCP84S ENCLOSURE

CP84 ENCLOSURE

ULP68X ENCLOSURE



CB84SG ENCLOSURE



www.AVLELEC.com
8641 South Warhawk Road, Conifer Colorado 80433
Tel: 303-670-1099 * FAX: 303-679-8949 /// email: Patrick.McAllister@avlelec.com

INSTALLATION SHEET #IS-ULS

ULS Series 8" Speaker Assemblies for Fire Protective Signaling

SIGNALING FIRE ALARM EQUIPMENT 28LO LISTED

Installation - Series ULS (28LO) Fire Protective Signaling Speaker

These speakers are intended to be employed in either of the following configurations:

A. For fire alarm signaling service in conjunction with a compatible Listed system control unit, the combination of which is intended to be installed as a combination system control in accordance with the applicable requirements of NFPA 72 and the local authorities having jurisdiction. The amplifier, in conjunction with the tone generator located in the control unit, provides the power and signal, either for the alarm evacuation and/or for voice communication.

B. For general (non-fire alarm) signaling service in conjunction with compatible Listed sound recording and reproducing equipment, the combination of which is intended to be installed in accordance with the applicable requirements of the National Electrical Code and the local authorities having jurisdiction. The amplifier or other sound reproducing equipment provides the power for voice communication or any other related function to the speakers.

Connection Notes: Parallel input leads are provided on Series ULS speakers for proper utilization of the electrical supervision scheme. Connect one pair (red and black) to the incoming line from the signal source or previous speaker. Connect the other pair (red and black) to the outgoing line to the next speaker or end-of-line termination device. A red jumper is connected to the 70.7V 0.5W tap when shipped from the factory. If desired, move the red jumper to a different transformer power tap lug. See "**FIGURE 1**" on this page for available transformer power taps.

ULSWB8CT572 ASSEMBLY

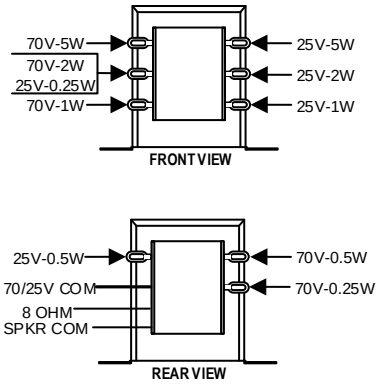
ULSSG8CT572 ASSEMBLY

ELECTRICAL SPECIFICATIONS	
Frequency Response: 60Hz - 12kHz ± 9dB	Intended Use: Indoor Dry Locations
2kHz Dispersion at -6dB down points: With SG8 Grille:100 degrees With WB8 Grille:100 degrees	
Directional Characteristics Test With Full Power Pink Noise Input Measured at 3m: On Axis = 97.7dBA, -3dBA at 35° off axis, -6dBA at 65° degrees off axis, 89.3dBA at 90° off axis	
810 Driver Size: 8"	810 Impedance: 8 Ohms
810 Driver Power Rating: 15 watts RMS	810 Magnet: 10 oz. Ceramic
810 Driver Construction: Paper Cone, 1" Voice Coil, 20 Gauge Stamped Steel Basket	
Supervision Capacitor: 10uF 160V. Maximum Allowable Supervision Voltage: 100 VDC.	

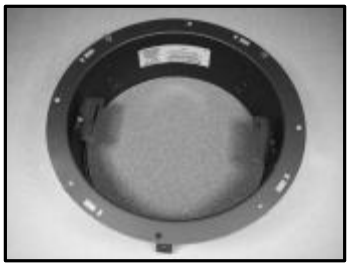
ELECTRICAL AND AUDIBLE RATINGS		ULSWB8CT572	ULSSG8CT572
MAXIMUM VOLTAGE	TLM572 (#13456) TRANSFORMER TAP	UL dBA RATING AT 10FT.	UL dBA RATING AT 10FT.
70.7 V RMS	5.0 W.	90.4	90.4
	2.0 W.	86.6	86.6
	1.0 W.	83.6	83.6
	0.5 W.	80.9	80.9
	0.25 W.	77.1	77.1
25 V RMS	5.0 W.	90.6	90.6
	2.0 W.	87.0	87.0
	1.0 W.	84.1	84.1
	0.5 W.	81.3	81.3
	0.25 W.	78.0	78.0

Note: The UL dBA ratings given above are the low readings from 11 samples so they may not be as expected for one sample.

FIGURE 1
#13456
TRANSFORMER TAPS

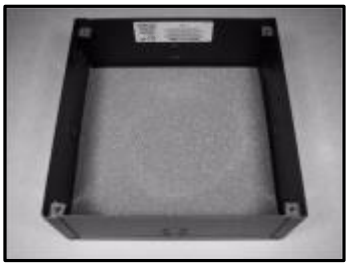


XCP84S ENCLOSURE



CP84 ENCLOSURE

ULP68X ENCLOSURE



CB84SG ENCLOSURE

www.AVLELEC.com
8641 South Warhawk Road, Conifer Colorado 80433
Tel: 303-670-1099 * FAX: 303-679-8949 /// email: Patrick.McAllister@avlelec.com