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SF.6 and SF.6FD CEILING LOUDSPEAKER

INSTALLATION CONNECTION AND ADJUSTMENT DETAILS

SUPPLY The SF.6 is supplied as a single complete boxed unit. The SF.6FD is supplied in two parts - the loudspeaker unit with transformer, and the fire dome.

INSTALLATION The loudspeakers are designed to be mounted simply into a suspended ceiling. They require access only from below the ceiling. No additional hardware is required except appropriate cable glands for the SF.6FD. Ensure that the ceiling is capable of supporting the total weight of the loudspeakers and that the mounting holes in their intended locations will not weaken the structure.

SF.6: Cut a 192mm diameter hole in the ceiling using the supplied template. Open out and bend back both spring clips simultaneously and then offer the unit up into the hole, progressively releasing the springs. The unit will be snapped up into the cut-out. Loudspeaker removal is accomplished by gently pulling the edges of the baffle away from the ceiling. Hold the springs gently as they re-appear to avoid them snapping shut against the fingers!

SF.6FD: Fit the fire dome first. Cut a 195mm diam hole in the ceiling using the supplied template. Make appropriate cable entry arrangements in the dome. Unscrew the butterfly nut and position the bracket above the ceiling (using duct/gaffer tape to hold down the ears makes life easier) and offer the dome into the hole to align with the bolt of the bracket. Refit the butterfly nut. A locknut could also be fitted for extra security. To fit the loudspeaker assembly, position th two supplied springs onto the chassis lugs such that their free ends point downwards and the stems of the springs are angled in towards the magnet. Whilst wearing eye protection, compress one of the springs and offer the chassis up to the dome and locate the spring stems into one of the dome brackets. The chassis should now hang securely whilst the two-part connection is made. Compress the other spring and locate that in the other bracket. Buy lifting the chassis, the springs will gently snap the assembly up against the ceiling. (If this doesn't go smoothly then check that the springs are the right way round). Loudspeaker adjustment is accomplished by gently pulling the edges of the baffle away from the ceiling until the transformer taps can be accessed.

CONNECTION

SF.6: Connect the incoming 100V line feed to the connection block, across the BLACK and RED conductors. Ensure that the phase of the connections is the same for all loudspeakers installed on any particular circuit. The GREEN terminal is a safety earth.
If using 50V circuits, then connect across the BLACK and BROWN.
If using a balanced 100V circuit, then connect as above for 100V line, and use the BROWN connection as a centre tap to ground. (Note that in this case, only the centre-tap of the amplifier 100V line output should be either earthed or floating, or damage will result.)

SF.6FD: Connect the incoming 100V line feed to the ceramic connection block inside the dome, across the BLACK and WHITE conductors. Ensure that the phase of the connections is the same for all loudspeakers installed on any particular circuit. The GREEN terminal is a safety earth. The two black sleeves in the fixed wiring conceal thermal fuses in compliance with BS.5839.

	SF.6	SF.6FD
100V Taps	10W, 6, 3, 1.5, 0.75	
Connections	Nylon connection block	Ceramic connection block. Access through dome by two 20mm dia knock-outs in top surface
Response	100Hz - 15kHz	
Dispersion @ 1kHz	183°	170°
SPL @ 1W 1M	93	
Driver	140mm	
Mounting	Easy spring clips through 192mm cut-out in ceilings up to 40mm thick	Easy spring clip into pre-fixed dome in 195mm hole. Dome can accommodate ceilings up to 20mm thick
Material & colour	Steel chassis and dome. Grill white enamelled to RAL 9010	
Dimensions WxHxD mm	230 dia x 60	230 dia. Dome requires 110mm clear above ceiling

ADJUSTMENT

As supplied, the units may be set to their maximum power tap of 10 Watts. To reduce this setting, identify the red/black wires to the loudspeaker chassis. Disconnect the RED wire from the transformer (pull gently) and reconnect it to the required power setting as identified on the top of the transformer.

CAUTION!

In the interests of safety, all connections and adjustments should be made without the 100V loudspeaker line being in operation. Either switch off the appropriate amplifier, or isolate the 100V line at a junction box.

In the interests of continuous development, specifications are subject to change without notice. E & OE.

CE

Electromagnetic compatibility (EMC) directive 89/336/EEC and amendment directive 92/31/EEC

This equipment has been designed and manufactured to the highest standards. If connected and operated as set out in this manual, there should be no Electromagnetic Compatibility problems. If any aspect of operation gives rise to concern, then please contact the manufacturer for advice.