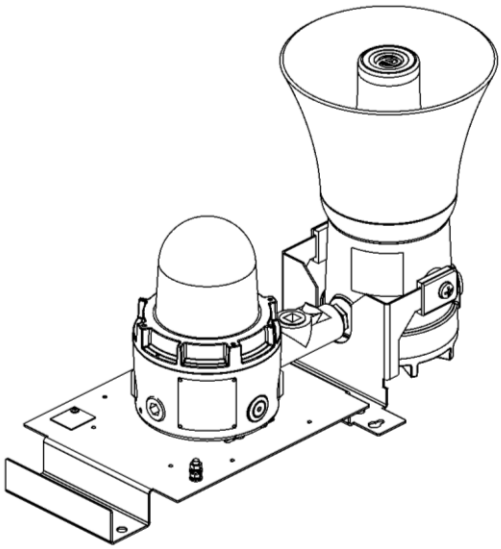
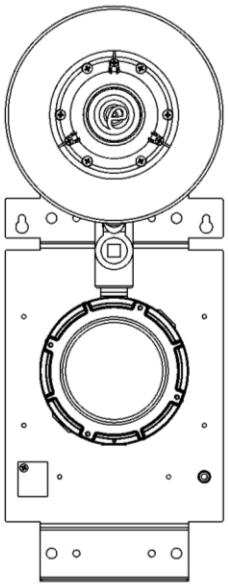
INSTRUCTION MANUAL
D1xCF Combined Speaker Strobe for Fire Alarm in Explosionproof Areas





1) Warnings

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

2) Rating & Marking Information

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

All individual unit ratings must be suitable for the installation.

3) Type Approval Standards

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

4) Installation Requirements

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

5) Special Conditions of Use

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

Component Part Code Reference	Component Description	Document Number
D1xB2XH1	UL1971 Xenon Strobe – 10 Joules	D191-00-261-IS
D1xB2XH2	UL1971 Xenon Strobe – 21 Joules	D191-00-251-IS
D1xL1F	UL1480 Speaker – 15W	D190-00-201-IS
D1xL2F	UL1480 Speaker – 25W	

Table 1: Product Instruction Manual Reference

6) Part Coding

Part Code:	Identifier - Description
Product Type	D1xCF - Combined Speaker Strobe
Strobe Type	6C - D1xB2XH1* 86.37cd Xenon Strobe 7C - D1xB2XH2* 190.00cd Xenon Strobe * Clear lens only, no guard
Speaker Model	L1F - D1xL1F 15W Speaker 25/70V Line L2F - D1xL2F 25W Speaker 25/70V Line
Cable Entries [e]	M - 1 x 3/4" NPT + 1 x M20x1.5mm – Default B - 2 x 1/2" NPT (Adaptors) C - 1 x 3/4" NPT + 1 x 3/4" NPT (Adaptor) F - 1 x 3/4" NPT + 1 x 1/2" NPT (Adaptor)
Stopping Plug / Adaptor Material [m]	N - Nickel Plated Brass
Tag Material [s]	1 - 316 St/St Equipment Tag
	3 - 316 St/St Equipment Tag & Duty Label
Product Version [v]	C - UL/cUL/ULC Class I Division 1, Class I Zone 1
Product Option [o]	1 - Standard Wiring W - Special Wiring
Assembly Colour [x]	R - Red

7) Location and Mounting

The location of the Speaker Strobe should be made with due regard to the area over which the warning signal must be audible/visible. They should only be fixed to surfaces that can carry the weight of the unit.

The D1xCF Combined Speaker Strobe should be secured to any flat surface using six Ø7mm fixing holes in the mounting plate. See figure 1.

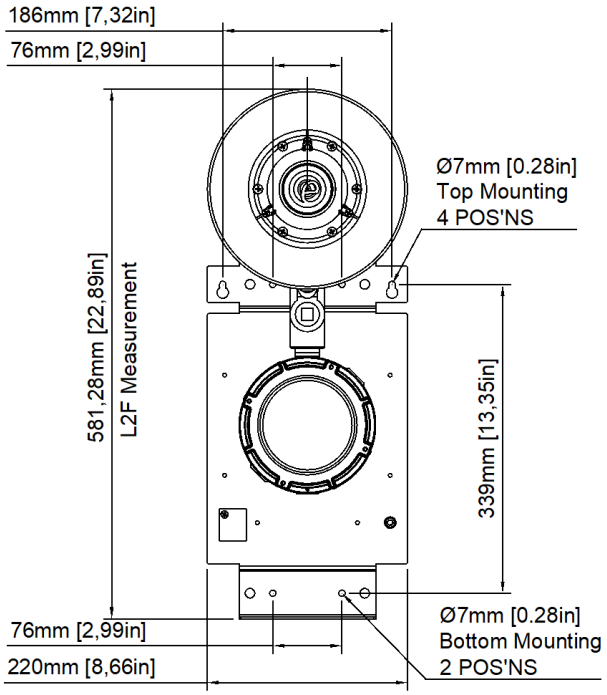


Fig.1: Mounting Detail and Dimensions for
D1xCF Combined Speaker Strobe – L2F shown.

Alternatively, the unit can be pole mounted. For pole mounting detailed instructions, see drawing D226-00-025.

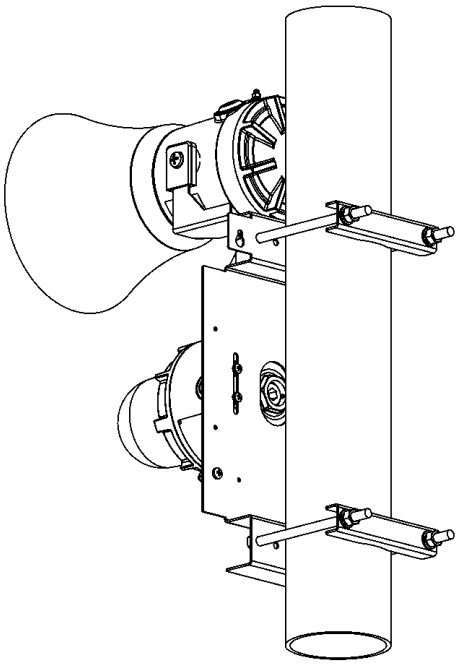


Fig. 2: Pole Mounted Stack - Max. Pole size NPS 4"
(OD: Ø114.3mm / 4.5in)

8) Access to the Enclosure



Warning – Hot surfaces. External surfaces and internal components may be hot after operation, take care when handling the equipment.

In order to connect the electrical supply cables to the Speaker Strobe, it is necessary to open the explosion proof enclosure of the Strobe. Loosen the locking grub screw in the cover and then remove the glass dome cover assembly to gain access to the chamber. This can be achieved by unscrewing the glass dome cover, taking extreme care not to damage the threads when doing so.

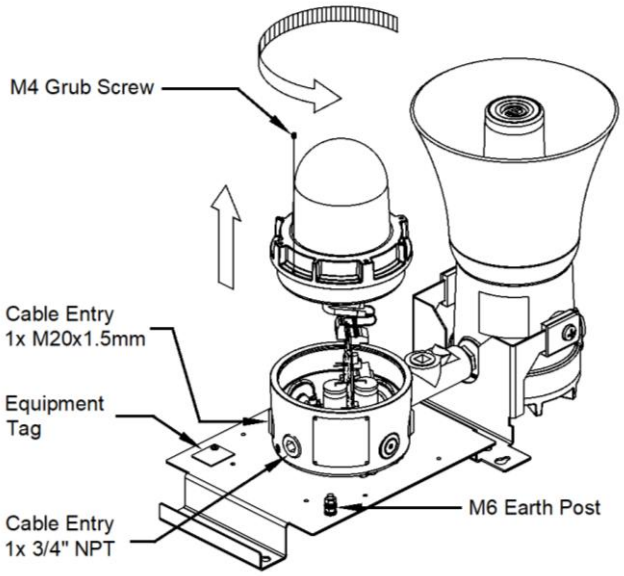


Fig. 3: Access to Enclosure, PCBA & Terminals.
Optional adaptor/s available for the cable entries described.

9) Power Supply Selection

For Voltage ranges of complete units, take the highest Minimum value and lowest Maximum value in the ranges of the component units. For Nominal Current ratings of complete units, add the ratings from the component units.

E.g. D1xCF 6C L1F…:

Unit Type	D1xB2XH1	D1xL1FV725	**D1XCF Total**
Voltage Range	20-28Vdc	--	**20-28Vdc**
Nominal Current	635mA	--	**635mA**

Please see individual product instruction manual for Voltage Range & Nominal Current values.

10) Selection of Cable, Cable Glands, Blanking Elements & Adapters

Please see individual product instruction manual.

NOTE: Stopping plugs cannot be fitted into adaptors.

11) Earthing

The Speaker Strobe is provided with an M6 earth screw on the mounting plate. Earthing connections should be made to the M6 earth screw, using a ring crimp terminal to secure the earth conductor.

Please see individual product instruction manual for details of earthing the Strobe and the Alarm Horn.

12) Cable Connections

Electrical connections are to be made into the terminal block and PCBA located in the Strobe. See section 8 of this manual for access to the enclosure. See also individual manuals for detail on wiring into PCBA terminals.

Electrical Connections are to be made using solid or stranded wire, sizes 0.5-2.5mm2 / AWG 20-14. Wire insulation needs to be stripped 6-7mm. Wires may be fitted securely with crimped ferrules. Terminal screws need to be tightened down with a tightening torque of 0.4 Nm / 3.5 Lbin.

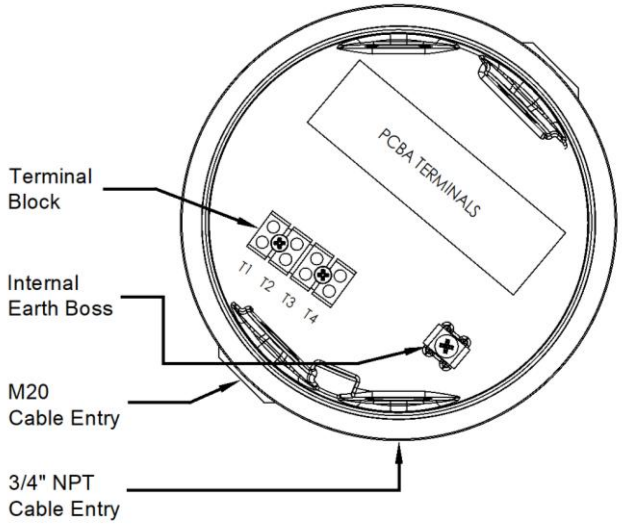


Fig. 4: Entry Unit - Strobe Internal Detail & Terminal Block

13) Wiring

For wiring diagram, see schematic document D226-06-425.

Cable connections to the Strobe are to be made directly into the PCBA terminals of the Strobe..

Cable connections to the Speaker are to be made into T1/T2 and T3/T4 terminals of the terminal block in the base.

Note:
For units with product codes where Product Option = W, please see special wiring schematic supplied with the unit documentation.

14) Supervisory Resistors

Optional Supervisory Resistors can be installed in the Combined Speaker Strobe, connected across the +ve and the -ve of the PCBA terminals.

Resistors can be installed in each of the Speaker and the Strobe chambers.

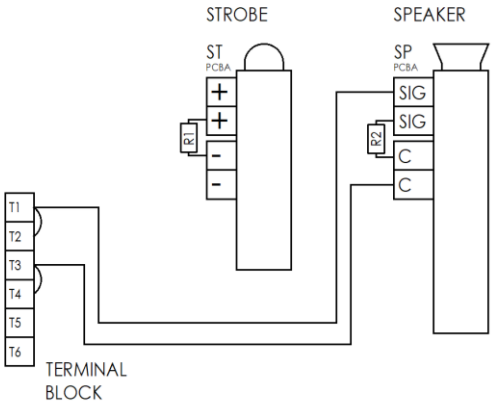


Fig. 5: Supervisory Resistor positions.

Refer to the unit instructions (see Table 1) for guidelines for access to enclosure and resistor installation.

For the Strobe, optional Supervisory Resistors must have a minimum resistance value of:

Minimum Resistance 3k3 ohms Minimum Power 0.5W
Minimum Resistance 500 ohms Minimum Power 2W

For the Speaker, optional Supervisory Resistors must have a minimum resistance value of:

Minimum resistance 4k7 ohms Minimum Power 2.5W

15) Speaker Output and Strobe Flash Pattern

The Speaker supports both 70V and 25V Line In. The power output will vary depending on the applied line in:

15W output for D1xL1F, when 70V Line In is applied
25W output for D2xL1F, when 70V Line In is applied

5W output for D1xL1F, when 25V Line In is applied
6W output for D2xL1F, when 25V Line In is applied

Refer to the Speaker instructions (see Table 1) for additional power tapping descriptions.

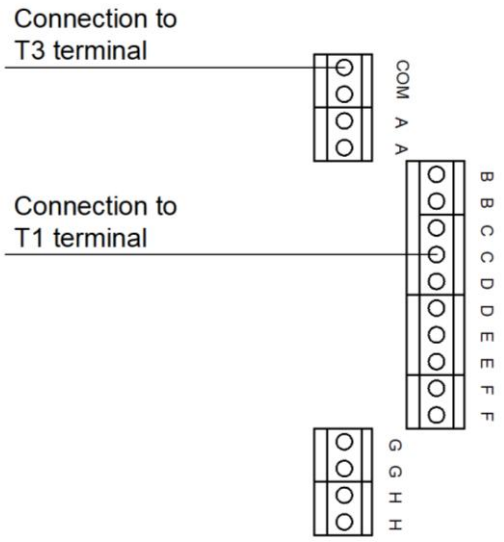


Fig. 6: Factory wiring to Speaker PCBA terminals.

The Strobe is set to 1Hz flash pattern.

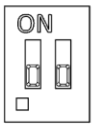


Fig. 7: Strobe 1Hz flash pattern DIP switch settings.

Refer to the individual instruction manual (list in Table 1) for additional descriptions.

16) Spare Parts

Optional duty label is available for the Strobe. See figure 8 for default factory arrangement with metal hex spacers.

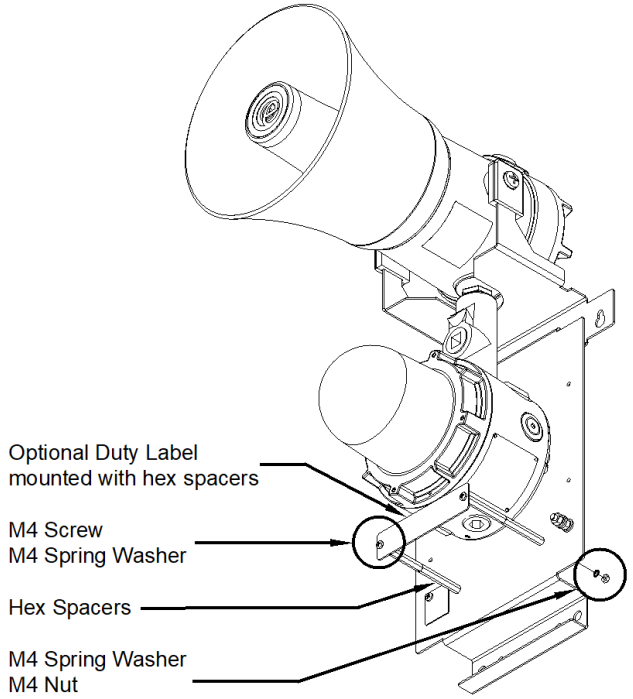


Fig. 8: Duty label assembly with hex spacers

As an alternative to the factory arrangement, the duty label can be flat mounted on the backplate. Shown in figure 9, unscrew the M4 fasteners and remove the metal hex spacers.

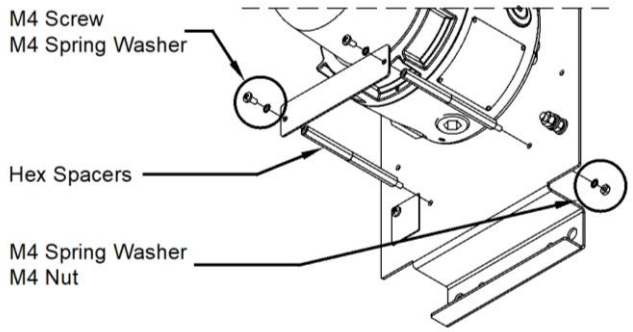


Fig. 9: Duty label disassembly

Fit the duty label flush to the backplate with the M4 screws and spring washers inserted into holes. Place spring washers over the spacer threads on the underside of the plate and tighten the M4 hex nuts fully.

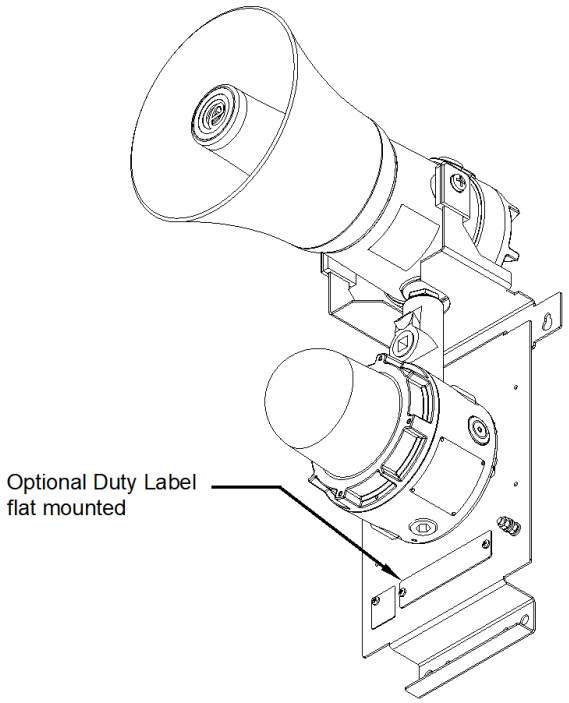


Fig. 10: Duty label flat mounted

17) Maintenance, Overhaul and Repair

Please see individual product instruction manual. See Table 1 for Instruction Manual Document Number.

E2S PART NO	DESCRIPTION
D1xCF[XX][LXX]	D1xCF COMBINED SPEAKER STROBE FOR FIRE ALARM IN EXPLOSIONPROOF AREAS

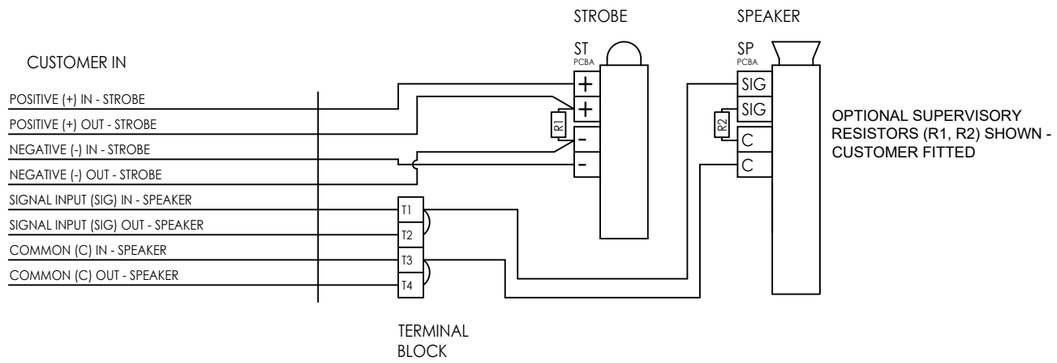
ISSUE	MOD No.	REASON - INITIAL - DATE
1		Introduction. MA - 08/04/2025

Note: Alternative wiring configurations may be available on request - contact E2S sales

CONFIG. 1

STROBE VOLTAGE SUPPLY - 24 VDC

SPEAKER V725 TAPPED TO MAXIMUM POWER OUTPUT



NOTES:

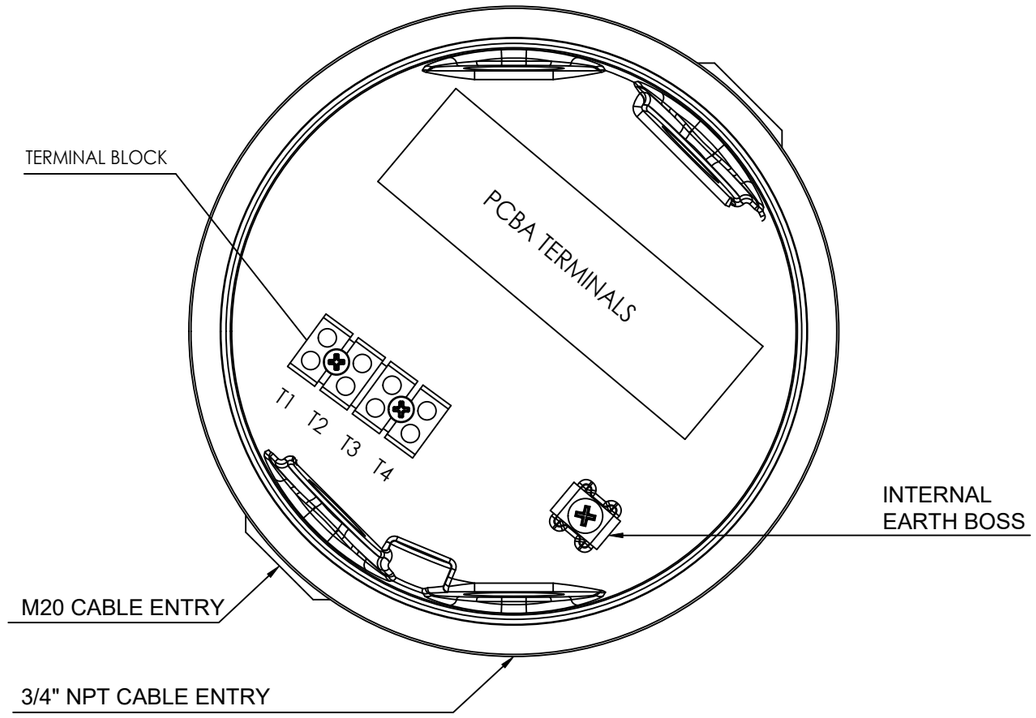
V725 Speakers support two Line In input options: 25V & 70V.
V725 Speaker factory tapping is by default set for maximum output when using 70V line in.
See below details for the power outputs dependant on the line in applied:

- D1xL1FV725 factory tapping output: 15W for 70V line in (max output)
  5W for 25V line in
- D1xL2FV725 factory tapping output: 25W for 70V line in (max output)
  6W for 25V line in

The power tapping can be manually adjusted on the Speaker PCBA.
Refer to D190-06-201 for wiring diagrams and alternative power tapping options.

To open the Strobe, refer to the selected unit's Instruction Manual for guidelines for access to enclosure.
To open the Speaker, refer to D190-00-201-IS for guidelines for access to enclosure.

ENTRY TERMINALS



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN M.ABALOS DATE 08/04/2025	SURFACE FINISH	WEIGHT (Kg)
STANDARDS D1xCF	CHECKED R.N.POTTS DATE 08/04/2025	MATERIAL	
	APPROVED R.N.POTTS DATE 08/04/2025	ALTERNATIVE MATERIAL	

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TITLE D1xCF 24 VDC COMBINED SPEAKER STROBE - WIRING SCHEMATIC

SCALE | SHEET | DRAWING NUMBER D226-06-425