1-32-052 / D2x: Aluminium hazardous location

D2xL2F 124dB(A) 25W Hazardous Location Speaker

The D2xL2F is a 25W PA loudspeaker with re-entrant flare horn. A high SPL in a robust Type 4/4X, IP66 marine grade, corrosion proof aluminium enclosure ensures suitability for all Class I/II Div 2 and Zone 2 & 22 hazardous location applications.

The re-entrant flare horn is high impact, fire retardant thermoplastic and is field replaceable – the driver employs a standard 1 3/8" -18 male thread coupling. All models have triple cable entries and duplicated terminals.
The large termination chamber and cover feature a threaded flameproof joint simplifying both installation and routine maintenance.

Features

- Sound output up to 124dB
- Dual 25V/70V or 100V line transformer
- Multiple transformer tappings
- Field replaceable flare component
- Ratchet adjustable 316 stainless steel bracket
- Triple cable entries
- Robust marine grade aluminium enclosure
- Duplicated cable terminations
- UL 1480A (Ed 1) – Speakers for Commercial and Professional Use
- CSA C22.2 No. 205 (Ed 3) – Signal Equipment
- UL 1480 (Ed 6) – Speakers for Fire Alarm and Signaling Systems,
- CAN/ULC-S541 (Ed 4) – Speakers for Fire Alarm and Signaling



Approvals

- UL/cUL File ref: E230764
- IECEx certificate: IECEx ULD 19.0008X
- ATEX certificate: DEMKO 19 ATEX 2141X
- UKCA certificate: UL21UKEX2132X
- CSFM listing: 7136-2279:0503
- CCOE PESO
- DNV certificate: TAA00003KC

Coding

- NEC/CEC Class Div
  Class I Div 2 Group ABCD T3 Ta -55°C to +85°C (T3A: +80°C)
  Class I Div 2 Group ABCD T3B Ta -55°C to +65°C (T3C: +60°C)
  Class II Div 2 Group FG T4 Ta -55°C to +85°C
  Class III Ta -55°C to +85°C
- NEC Class Zone
  Class I Zone 2 AEx ec IIC T3 Gb Ta -55°C to +75°C
  Zone 22 AEx tc IIIC T119°C Dc Ta -55°C to +75°
- CEC Class Zone
  Ex ec IIC T3 Gc -55°C to +75°C
  Ex tc IIIC T119°C Dc -55°C to +75°C
- IECEx / ATEX
  II 2G Ex ec IIC T3 Gc Ta -55°C to +75°C
  II 2D Ex tc IIIC T119°C Dc Ta –55°C to +75°C
  See product manual for full product specific coding.



Specification

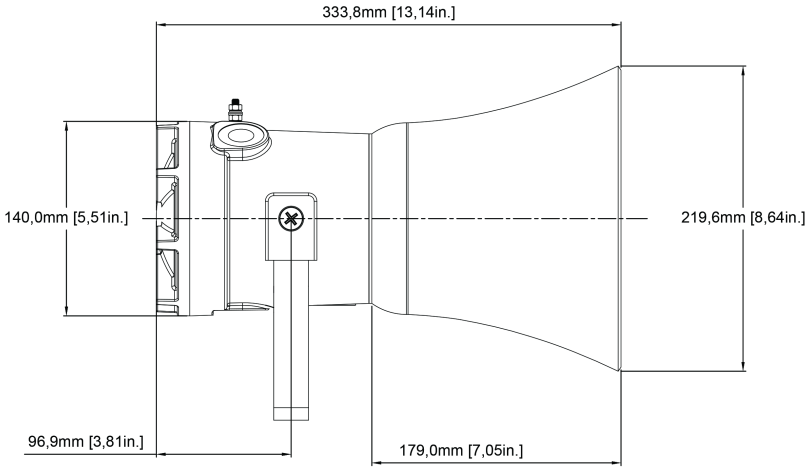
Sound pressure level:	104dB +/-3dB @ 1W @ 1m (Pink) 119dB +/-3dB @ 25W @ 1m (Rated) 124dB(A) @ 1 m at 1.3Khz (Max)
Rated power:	25 Watts RMS
25/70v line tappings:	25W/12.5W/6W/2W/1W tappings 25V: z=196/392/816.67/1.225K/2.45K/4.9K Ohm 70V: z=25/50/104.17/156.25K/312.5K/625 Ohm
100v line tappings:	25W/12.5W/6W/2W tappings z=400 Ohms/800 Ohms/ 1.67K Ohms/5K Ohms
Low impedance:	8 Ohm or 16 Ohm
Q Factor:	2.7 @ 500Hz, 3.0 @ 1KHz, 7.7 @ 2KHz, 14.7 @ 4KHz, 14.7 @ 8KHz
Directivity Index:	4.4 @ 500Hz, 4.8 @ 1KHz, 8.8 @ 2KHz, 11.7 @ 4KHz, 11.7 @ 8KHz
Frequency range:	400Hz to 8000 Hz
DC Line monitoring:	2.2µF Capacitor (Transformer) 470µF Capacitor (Low impedance)
Ingress protection:	EN60529: IP66/67 UL50E / NEMA250: 4/4X/3R/13
Enclosure material:	Marine grade LM6 aluminium alloy
Enclosure finish:	Chromate & powder coated finish ISO 12944-6 CX, C5VH & C5H
Enclosure colour:	Red or Grey, custom colours available on request
Cable entries:	1 × 1/2"NPT & 2 x M20 Thread adaptors available
Stopping plugs:	Brass, Nickel Plated or Stainless Steel
Terminals:	0.5-2.5mm² (20-14 AWG) Duplicated terminals
Grounding stud:	M5
Enclosure volume:	<2 litres
Installation temp:	NEC/CEC: -55° to +80°C [-67° to +176°F] CEC/IECEx/ATEX: -55° to +75°C [-67° to +167°F]
Storage temp:	-55° to +85°C [-67° to +185°F]
Relative humidity:	99% – tropicalised/conformal coated electronics
MTBF V100/V070/V725:	630.69 years / 5,524,861 hours – MIL 217
MTBF R008/R016:	830.22 years / 7,272,727 hours – MIL 217
Weight:	Transformer versions: 4.5kg/9.9lbs Low impedance version.: 4.2kg/9.1lbs

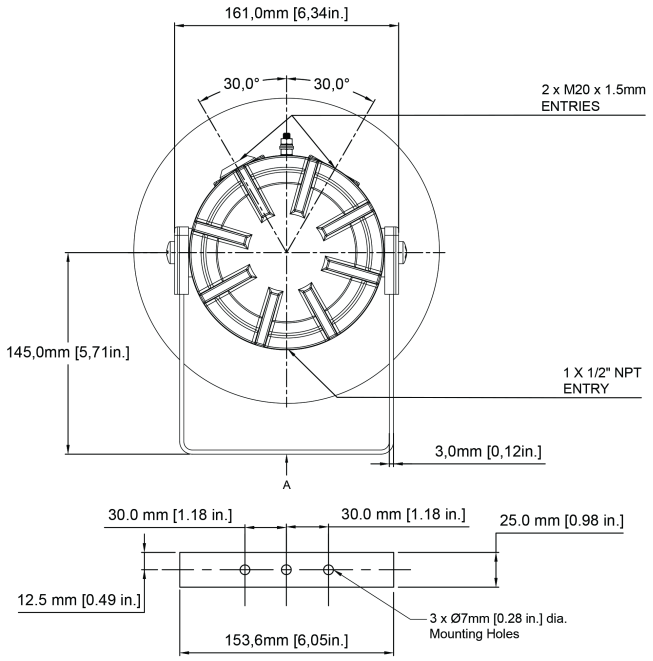
Part Codes

Part Code:	Identifier:	Description:
Product type:	D2xL2	D2xL2 25W Loudspeaker
Horn type:	F	Flare re-entrant horn
Type:	V100	100V Line Transformer
	V725	25/70V Line Transformer
	R008	8 Ohm Low impedance
	R016	16 Ohm Low impedance
Cable entries:[e]	A	2 x M20x1.5mm & 1 × 1/2"NPT
	B	2 × 1/2"NPT – adaptors
	C	2 × 3/4"NPT – adaptors
	D	2 x M25x1.5mm – adaptors
	F	1 × 3/4"NPT – adaptor
	G	1 x M25x1.5mm – adaptor
	Note:	All entries, excluding thread adaptors, supplied with stopping plugs installed.
Stopping plug/ adaptor material: [m]	B	Brass
	N	Nickel plated brass
	S	Stainless steel
Bracket material: [s]	1	A4 316 Stainless Steel
	3	A4 316 St/St with Equip. Tag
	5	A4 316 St/St with Equip. Tag and Duty Label
Product version: [v]	A	UL, cUL, ULC, IECEx, ATEX, PESO, DNV
Product option: [o]	1	Standard product
	X	Custom configuration – contact E2S
Enclosure colour: [x]	R	Red
	G	Grey
	S	Special colour – contact E2S

Accessories:

SP65-0001-A4	Pole Mount Bracket Kit St/St A4 (316)
SP65-0003-A4	Sunshade – St/St A4 (316)





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