1-22-170 / D1x: Aluminium explosion/flameproof

D1xL2F 123dB(A) 25W Explosion Proof Speaker

The D1xL2F 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 1 & Zone 1, 20 and 21 explosion proof 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

- Multiple transformer tappings
- Ratchet adjustable 316 stainless steel bracket
- Triple cable entries, duplicated cable terminations
- Robust marine grade aluminium enclosure
- UL 1480 Speakers for Fire Alarm and Signaling Systems,
- CAN/ULC-S541 Speakers for Fire Alarm and Signaling Systems



Approvals

- UL/cUL File ref: E230764
- IECEx certificate: IECEx ULD 19.0008X
- ATEX certificate: DEMKO 19 ATEX 2141X
- CSFM listing: 7136-2279:0504
- UKCA certificate: UL21UKEX2132X
- INMETRO IEx 24.0158X
- DNV certificate: TAA00003KC

Coding

- NEC Class Div
  Class I Div 1 Group ABCD T5 Ta -55°C to +85°C (T6 +60°C)
- CEC Class Div
  Class I Div 1 Group ABCD T5 Ta -55°C to +75°C (T6 +60°C)
- NEC Class Zone
  Class I Zone 1 AEx db IIC T4 Gb Ta -55°C to +75°C (T5 +70°C)
  Zone 21 AEx tb IIIC T91°C Db Ta -55°C to +75°C
- CEC Class Zone
  Ex db IIC T4 Gb Ta -55°C to +75°C (T5 +70°C)
  Ex tb IIIC T91°C Db Ta -55°C to +75°C
- IECEx / ATEX
  II 2G Ex db IIC T4 Gb Ta -55°C to +75°C (T5 +70°C, T6 +55°C)
  II 2D Ex db IIIC T98°C Db Ta -55°C to +75°C
- Product version: D – NEC & CEC Class Div
  Class II Div 1 Group FG T6 Ta -40°C to +70°C
  Class III Div 1 Ta -40°C to +70°C
  Zone 20 IIIB T6 Ta -40°C to +70°C
  See product manual for full product specific coding.



Specification

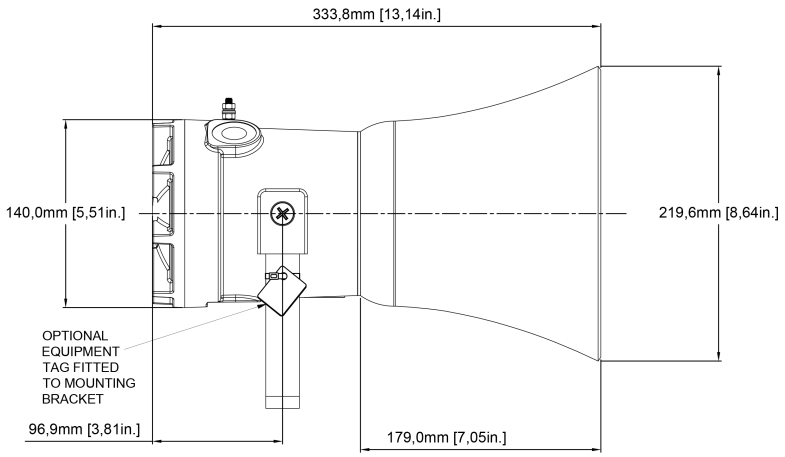
Product version A SPL:	104dB +/-3dB @ 1W @ 1m (Pink) 119dB +/-3dB @ 25W @ 1m (Rated) 123dB(A) @ 1m at 1.3Khz (Max)
Product version D SPL:	89dB +/-3dB @ 1W @ 1m (Pink) 98dB +/-3dB @ 25W @ 1m (Rated) 108dB(A) @ 1m at 1.3Khz (Max)
Rated power:	25 Watts RMS
25/70v line tappings:	25W/12.5W/6W/2W/1W tappings 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
70v line tappings:	25W/12.5W/6W/2W tappings z=196 Ohms/392 Ohms/816.67 Ohms/2.45K Ohms
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:	3.1 @ 500Hz, 2.8 @ 1KHz, 6.4 @ 2KHz, 13.2 @ 4KHz, 13.8 @ 8KHz
Directivity Index:	4.9 @ 500Hz, 4.5 @ 1KHz, 8.1 @ 2KHz, 11.2 @ 4KHz, 11.4 @ 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 colour:	Red or Grey, custom colours available on request
Enclosure finish:	Chromate & powder coated finish ISO 12944-6 CX, C5VH & C5H
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
Product version A Installation temp:	NEC: -55° to +85°C [-67° to +185°F] CEC/IECEx/ATEX: -55° to +75°C [-67° to +167°F]
Product version D Installation temp:	NEC Class Div: -40° to +70°C [-40° to +158°F] NEC Class Zone, CEC Class Div/Zone: -55° to +75°C [-67° to +167°F]
Storage temp:	-55° to +85°C [-67° to +185°F]
Relative humidity:	95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist
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:	100V, 70V, 25/70V line: 4.5kg/9.9lbs Low imp.: 4.2kg/9.1lbs

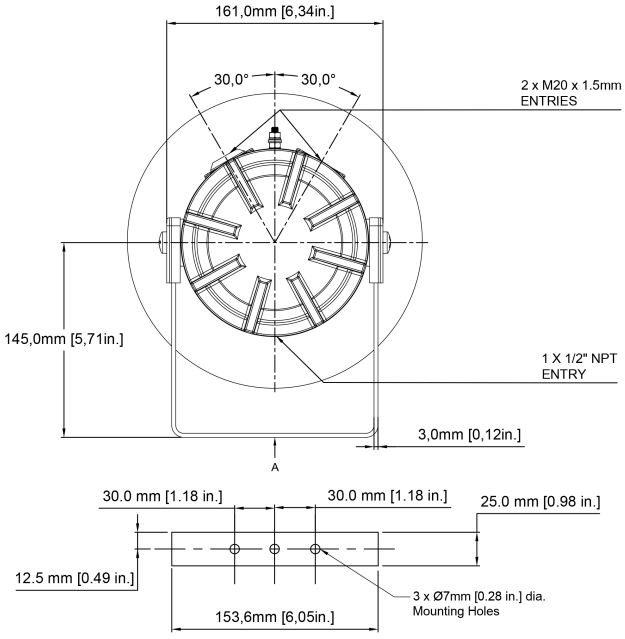
Part Codes

Part Code:	Identifier:	Description:
Product type:	D1xL2	D1xL2 25W Loudspeaker
Horn type:	F	Flare re-entrant horn
Type:	V100	100V Line Transformer
	V070	70V Line Transformer
	V725	25V/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
Product version: [v]	A	UL, cUL, IECEx, ATEX, CSFM, INMETRO, DNV
	D	Class II – UL, cUL (excluding 100V & 25V/70V)
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)





SCRAP VIEW IN DIRECTION 'A'

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.