

D2xL1F 120dB(A) 15W Hazardous Location Speaker

The D2xL1F is a 15W 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 120dB
- Dual 25V/70V or 100V line transformer
- Multiple transformer tapings
- 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 Systems

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: P598741
- DNV certificate: TAA00003KC

Coding

- NEC/CEC Class Div
Class I Div 2 ABCD T3 Ta -55°C to +85°C (T3C: +80°C)
Class I Div 2 ABCD T4 Ta -55°C to +55°C (T4A: +45°C)
Class II Div 2 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 Gc Ta -55°C to +75°C (T4: +50°C)
Zone 21 AEx tc IIIC T109°C Dc Ta -55°C to +75°
- CEC Class Zone
Ex ec IIC T4 Gc -55°C to +50°C (T3: +75°C)
Ex tc IIIC T109°C Dc -55°C to +75°C
- IECEx / ATEX
II 2G Ex ec IIC T4 Gc Ta -55°C to +50°C (T3: +75°C)
II 2D Ex tc IIIC T109°C Dc Ta -55°C to +75°C
See product manual for full product specific coding.



Specification

Sound pressure level:	101dB +/-3dB @ 1W @ 1m (Pink) 113dB +/-3dB @ 15W @ 1m (Rated) 120dB(A) @ 1 m at 1.3KHz (Max)
Rated power:	15 Watts RMS
25/70v line taps:	15W/7.5W/5W/4W/2W 25V: z=41.67/83.34/125/156.25/312.5K Ohm 70V: z=326.67/653.34/980/1.225K/2.45K Ohm
100v line taps:	15W/7.5W/3W/1W z=666.87 Ohms/1.34k Ohms/3.34k Ohms/10k Ohms
Low impedance:	8 Ohm or 16 Ohm
Q Factor:	2.2 @ 500Hz, 2.3 @ 1KHz, 5.4 @ 2KHz, 12.5 @ 4KHz, 10.9 @ 8KHz
Directivity Index:	3.5 @ 500Hz, 3.6 @ 1KHz, 7.3 @ 2KHz, 11.0 @ 4KHz, 10.4 @ 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 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:	0.5-2.5mm ² (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: 4.3kg/9.5lbs Low impedance version.: 4.0kg/8.7lbs

Part Codes

Part Code:	Identifier:	Description:
Product type:	D2xL1	D2xL1 15W Loudspeaker
Horn type:	F	Flare re-entrant horn
Type:	V100 V725 R008 R016	100V Line Transformer 25/70V Line Transformer 8 Ohm Low impedance 16 Ohm Low impedance
Cable entries: [e]	A B C D F G Note:	2 x M20x1.5mm & 1 × 1/2"NPT 2 × 1/2"NPT – adaptors 2 × 3/4"NPT – adaptors 2 x M25x1.5mm – adaptors 1 × 3/4"NPT – adaptor 1 x M25x1.5mm – adaptor All entries, excluding thread adaptors, supplied with stopping plugs installed.
Stopping plug/ adaptor material: [m]	B N S	Brass Nickel plated brass Stainless steel
Bracket material: [s]	1 3 5	A4 316 Stainless Steel A4 316 St/St with Equip. Tag 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 X	Standard product Custom configuration – contact E2S
Enclosure colour: [x]	R G S	Red Grey Special colour – contact E2S
Accessories:		
SP65-0001-A4		Pole Mount Bracket Kit St/St A4 (316)
SP65-0003-A4		Sunshade – St/St A4 (316)

