

D2xC4 Haz Loc LED/Xenon & Horn Alarm Bar

The D2xC4 is an integrated alarm bar assembly comprised of either high output LED or Xenon strobe beacons with a high output alarm horn sounder from the D2x family of globally approved Class I/II Div 2 and Zone 2/22 audible and visual warning signals.

The compact, close coupled D2xC4 alarm bar assembly is ideal for applications where combined audible and visual signals are required to provide multiple warnings. The D2xC4 features a preinstalled cable loom with a large termination area in the integrated junction box. The multi-stage alarm horn sounder can be configured to activate a separate alarm tone with each visual signal.

Features

- Private mode fire use & General signaling UL464/UL1638
- Globally approved to UL, cUL, IECEx and ATEX
- Available with LED and/or Xenon strobe beacons
- Integrated high output alarm horn sounder up to 116dB(A)
- 4 remotely selectable alarm stages/channels
- Choice of 64 alarm tone frequencies
- Automatic synchronisation on multi-sounder system
- Mounted on a stainless steel back plate
- Factory assembled with integrated cable loom
- Junction box
- Close coupled assembly
- LM6 marine grade aluminium enclosure
- Optional stainless steel duty labels
- Ingress protection Type 4/4X/3R/13, IP66/67
- High impact resistant glass lenses
- Stainless steel lens guards as standard
- Field replaceable lens colour filters
- Dual cable entries
- Supplied with haz loc rated stopping plugs

Approvals

- UL/cUL File ref: E245313, E230764
- IECEx certificate: IECEx ULD 14.0004X
- ATEX certificate: DEMKO 14 ATEX 4786493904X
- CSFM listing: 7300-2279:0500, 7136-2279:0503
- NEC / CEC: Class I Div 2 ABCD, Class II Div 2 EFG
- NEC: Class I Zone 2 AEx ec IIC, Zone 22 AEx tc IIIC
- CEC: Class I Zone 2 Ex ec IIC, Zone 22 Ex tc IIIC
- IECEx & ATEX: Zone 2 II 3G Ex ec IIC, Zone 22 II 3D Ex tc IIIC
- See component web pages and data sheets for full coding.



Specification

Beacon Option: D2xB1LD2 LED Beacon

Source: Array of 4 x High Power Cree® LED's

Eff. Intensity cd: 73.4 cd UL1638 Private mode fire

Eff. Intensity cd: 180 cd UL1638 General signaling

Peak Intensity cd: 300,000 cd

Eff. Intensity cd: 87 cd High power steady

LED life: >60,000 hours

Synchronization: Synchronized 1Hz, 1.3Hz and 2Hz flash rates

Beacon Option: D2xB1X10 10J Xenon Strobe Beacon

Energy: 10 Joules (10Ws)

Flash rate: 1Hz (60 fpm)

Peak Candela: 1,000,000 cd – calculated from energy (J)

Eff. Intensity cd: 500 cd – calculated from energy (J)

Peak Candela: 101,784 cd* – measured ref. to I.E.S.

Eff. Intensity cd: 288.8 cd* – measured ref. to I.E.S.

Beacon Option: D2xB1X05 5J Xenon Strobe Beacon

Energy: 5 Joules (5Ws)

Flash rate: 1Hz (60 fpm)

Peak Candela: 500,000 cd – calculated from energy (J)

Eff. Intensity cd: 250 cd – calculated from energy (J)

Peak Candela: 33,410 cd* – measured ref. to I.E.S.

Eff. Intensity cd: 94.78 cd* – measured ref. to I.E.S.

Alarm Horn Option: D2xS1 Alarm Horn Sounder

Maximum output: 116dB(A) @ 1 metre [107dB(A) @ 10ft/3m]

Nominal output: 112dB(A) @ 1m +/- 3dB – Tone 2 [103dB(A) @ 10ft/3m]

No. of tones: 64 (UK00A / PFEER compliant)

No. of stages: 4

Volume control: Adjustable -12dB(A) [Tone 2]

Effective range: 125m/410ft @ 1KHz

Stage switching: DC units: negative or positive
AC units: common supply line

General information: Common component features:

Mounting: Pole mount kit included

Ingress protection: EN60529: IP66/67, UL50E / NEMA250: 4 / 4X / 3R / 13

Enclosure material: Marine grade aluminium LM6 – copper free
Chromated & powder coated – corrosion proof

Enclosure colour: Red or Grey, custom colours available on request

Lens material: Borosilicate glass dome & PC colour filter

Lens guard: 316 (A4) Stainless Steel dome guard as standard

Cable entries: 2 x 1/2" NPT – thread adaptors available

Stopping plugs: Brass/Nickel Plated/Stainless Steel plugs included

Grounding stud: M4

Terminals: 0.5 – 2.5mm² (20-14 AWG) SAK 2.5 or BK12

Line monitoring: Blocking diode included. EOL can be factory fitted

Installation temp: -40 to +50°C [-40° to +122°F]

Storage temp: -40 to +70°C [-40° to +158°F]

Relative humidity: 95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist

Part Codes

Part Code: Identifier: Description:

Product type: D2xC4 Integrated Alarm Bar of LED and/or Xenon Strobe Beacons with Alarm Horn Sounder

Junction box & back plate: J1 Junction box with 12 x SAK 2.5 DIN rail terminals

Beacon 1 For each beacon select the numeric identifier plus colour character as follows:
Beacon 2
1 = D2xB1X05 5J Xenon Beacon
2 = D2xB1X10 10J Xenon Beacon
5 = D2xB1LD2 LED Beacon
A=Amber, B=Blue, C=Clear, G=Green, M=Magenta, R=Red, Y=Yellow
e.g. 5R = D2xB1LD2 LED Beacon with Red lens

Alarm horn: S1 D2xS1 Alarm Horn Sounder

Voltage: AC115 115-120V ac 50/60Hz
AC230 220-230V ac 50/60Hz
DC024 24V dc (18-30Vdc)

Cable entries: [e] A 2 x M20x1.5
B 2 x 1/2" NPT
C 2 x 3/4" NPT – adaptors
D 2 x M25x1.5 – adaptors
E 1 x 1/2" NPT
F 1 x 3/4" NPT – adaptor
G 1 x M25x1.5 – adaptor

Stopping plug/
adaptor material: B Brass
N Nickel Plated
[m] S Stainless Steel

Guard material: [s] 1 A4 316 Stainless Steel with Equip. Tag
3 A4 316 St/St with Equip. Tag & Duty Labels

Product version: [v]A UL, cUL, IECEx, ATEX

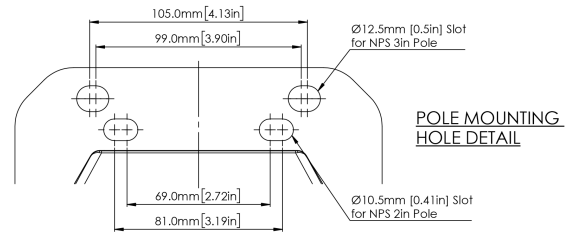
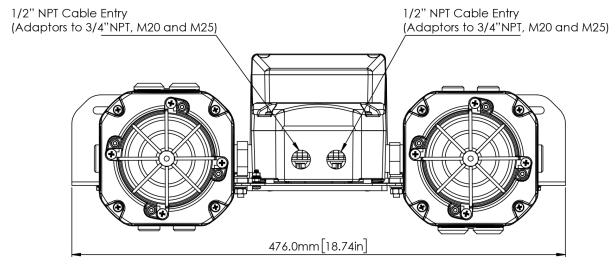
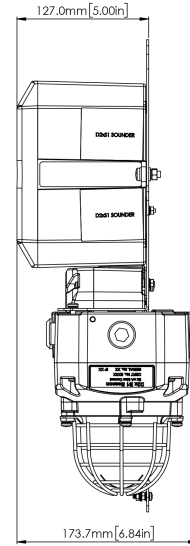
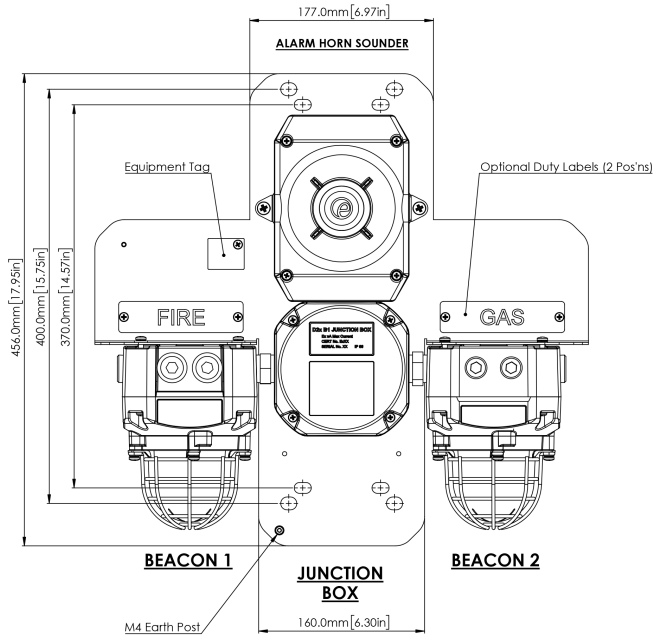
Product option: [o] 1 Standard product
T Tropicalisation
W Custom wiring – contact E2S
X Custom configuration – contact E2S
Z Custom alarm tone software – contact E2S

Enclosure colour: G Grey
[x] R Red

Example: D2xC4 J1 5G 5A 5R S1 DC024 B N 1 A 1 G
D2xC4 alarm bar with a junction box with DIN rail terminals and 2 x D2xB1LD2 LED beacons with Blue and Yellow lenses, D2xS1 alarm horn sounder, 2 x 1/2" NPT entries with nickel plated brass stopping plugs in a grey enclosure

Current Consumption

Voltage:	D2xB1LD2 LED Beacon Component Nominal Current:	D2xB1X10 10J Xenon Beacon Component Nominal Current:	D2xB1X05 5J Xenon Beacon Component Nominal Current:	D2xS1 Alarm Horn Sounder Component Nominal Current:
24V dc (18-30Vdc)	99.5mA	560mA	275mA	313mA
115-120Vac 50/60Hz	68mA	185mA	80mA	90mA
220-230Vac 50/60Hz	70mA	107mA	30mA	52mA



Tone table

S 1	Description	S 2	S 3	S 4
T 1	1000 Continuous - PFEER Toxic Gas	T 3	T 2	T 44
T 2	1200/500 @ 1Hz Sweeping - DIN / PFEER P.T.A.P.	T 1	T 3	T 44
T 3	1000 @ 0.5Hz (1s on, 1s off) Intermittent - P...	T 1	T 2	T 44
T 4	1.4KH-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - NF C 48...	T 44	T 24	T 1
T 5	544(100mS)/440 (400mS) - NF S 32-001	T 52	T 19	T 1
T 6	1500/500 - (0.5s on , 0.5s off) x3 + 1s gap -...	T 7	T 44	T 1
T 7	500-1500Hz Sweeping 2 sec on 1 sec off - AS4428	T 6	T 44	T 1
T 8	500/1200Hz @ 0.26Hz(3.3s on, 0.5s off) - NEN ...	T 44	T 24	T 35
T 9	1000 (1s on, 1s off)x7 + (7s on, 1s off) - IM...	T 18	T 34	T 1
T 10	1000 (1s on, 1s off)x7 + (7s on, 1s off) - IM...	T 21	T 34	T 1
T 11	420(0.5s on, 0.5s off)x3 + 1s gap - ISO 8201 ...	T 44	T 1	T 8
T 12	1000(0.5s on, 0.5s off)x3 + 1s gap - ISO 8201...	T 44	T 1	T 8
T 13	422/775 - (0.85 on, 0.5 off) x3 + 1s gap - ...	T 44	T 1	T 8
T 14	1000/2000 @ 1Hz - Singapore	T 23	T 3	T 35
T 15	300 Continuous	T 44	T 24	T 35
T 16	440 Continuous	T 44	T 24	T 35
T 17	470 Continuous	T 44	T 24	T 35
T 18	500 Continuous - IMO code 2 (Low)	T 44	T 24	T 35
T 19	554 Continuous	T 64	T 24	T 35
T 20	660 Continuous	T 44	T 24	T 35
T 21	800 Continuous - IMO code 2 (High)	T 44	T 24	T 35
T 22	1200 Continuous	T 44	T 24	T 35
T 23	2000 Continuous	T 15	T 3	T 35
T 24	2400 Continuous	T 48	T 20	T 35
T 25	440 @ 0.83Hz (0.60s on, 0.60s off) Intermittent	T 1	T 44	T 8
T 26	470 @ 0.9Hz (0.55s on, 0.55s off) Intermittent	T 1	T 44	T 8
T 27	470 @ 5Hz (0.10s on, 0.10s off) Intermittent	T 1	T 44	T 8
T 28	544 @ 1.14Hz (0.43s on, 0.44s off) Intermittent	T 44	T 24	T 8
T 29	655 @ 0.875Hz (0.57s on, 0.57s off) Intermittent	T 1	T 44	T 8
T 30	660 @ 0.28Hz (1.80s on, 1.80s off) Intermittent	T 44	T 24	T 8
T 31	660 @ 3.3Hz (0.15s on, 0.15s off) Intermittent	T 30	T 24	T 8
T 32	745 @ 1Hz (0.50s on, 0.50s off) Intermittent	T 44	T 24	T 8

S 1	Description	S 2	S 3	S 4
T 33	800 (0.25s on, 1.00s off) Intermittent	T 53	T 24	T 8
T 34	800 @ 2Hz (0.25s on, 0.25s off) - IMO code 3...	T 56	T 24	T 8
T 35	1000 @ 1Hz (0.50s on, 0.50s off) Intermittent	T 44	T 24	T 8
T 36	2400 @ 1Hz (0.50s on, 0.50s off) Intermittent	T 21	T 24	T 8
T 37	2900 @ 5Hz (0.10s on, 0.10s off) Intermittent	T 53	T 24	T 8
T 38	363/518 @ 1Hz (0.50s / 0.50s) Alternating	T 1	T 8	T 19
T 39	450/500 @ 2Hz (0.25s / 0.25s) Alternating	T 1	T 8	T 19
T 40	554/440 @ 1Hz (0.50s / 0.50s) Alternating	T 44	T 24	T 19
T 41	554/440 @ 0.65Hz (0.76s / 0.76s) Alternating	T 1	T 8	T 19
T 42	561/760 @ 0.83Hz (0.60s / 0.60s) Alternating	T 1	T 8	T 19
T 43	780/600 @ 0.96Hz (0.52s / 0.52s) Alternating	T 1	T 8	T 19
T 44	800/1000 @ 2Hz (0.25s / 0.25s) Alternating	T 5	T 24	T 19
T 45	970/800 @ 2Hz (0.25s / 0.25s) Alternating	T 1	T 8	T 19
T 46	800/1000 @ 0.875Hz (0.57s / 0.57s) Alternating	T 53	T 24	T 19
T 47	2400/2900 @ 2Hz (0.25s / 0.25s) Alternating	T 57	T 24	T 19
T 48	500/1200 @ 0.3Hz (1.67s / 1.67s) Sweeping	T 44	T 24	T 12
T 49	560/1055 @ 0.18Hz (2.73s / 2.73s) Sweeping	T 44	T 24	T 12
T 50	560/1055 @ 3.3Hz (0.15s / 0.15s) Sweeping	T 44	T 24	T 12
T 51	600/1250 @ 0.125Hz (4s / 4s) Sweeping	T 44	T 24	T 12
T 52	660/1200 @ 1Hz (0.50s / 0.50s) Sweeping	T 64	T 24	T 12
T 53	800/1000 @ 1Hz (0.50s / 0.50s) Sweeping	T 56	T 24	T 12
T 54	800/1000 @ 7Hz (0.07s / 0.07s) Sweeping	T 57	T 24	T 12
T 55	800/1000 @ 50Hz (0.01s / 0.01s) Sweeping	T 54	T 24	T 12
T 56	2400/2900 @ 7Hz (0.07s / 0.07s) Sweeping	T 57	T 24	T 12
T 57	2400/2900 @ 1Hz (0.50s / 0.50s) Sweeping	T 47	T 24	T 12
T 58	2400/2900 @ 50Hz (0.01s / 0.01s) Sweeping	T 54	T 24	T 12
T 59	2500/3000 @ 2Hz (0.25s / 0.25s) Sweeping	T 44	T 24	T 12
T 60	2500/3000 @ 7.7Hz (0.65s / 0.65s) Sweeping	T 44	T 24	T 12
T 61	800Hz Motor Siren	T 44	T 24	T 12
T 62	1200Hz Motor Siren	T 44	T 24	T 12
T 63	2400Hz Motor Siren	T 44	T 24	T 12
T 64	Simulated Bell	T 44	T 21	T 12