1-23-060 / Class I Dlv 1 Haz Loc

D1xC1X10F Alarm Horn & Xenon Strobe

The D1xC1X10F is a high output 117dB(A) alarm horn with flare horn combined with a & 10 Joule Xenon strobe. The robust Type 4/4X, IP66 marine grade, corrosion proof LM6 enclosure ensures suitability for all Class I Div 1 & Zone 1 applications.

The alarm horn & Xenon strobe allow simultaneous or independent operation. Featuring 64 first stage/channel alarm sounds, the alarm tone frequencies for the first 2 stages are independently selectable. Each of the available 4 stage/channels can be remotely triggered e.g. via an external relay. The DC version is approved for public mode fire alarm use (alarm horn) and private mode fire alarm use (strobe beacon).

Features

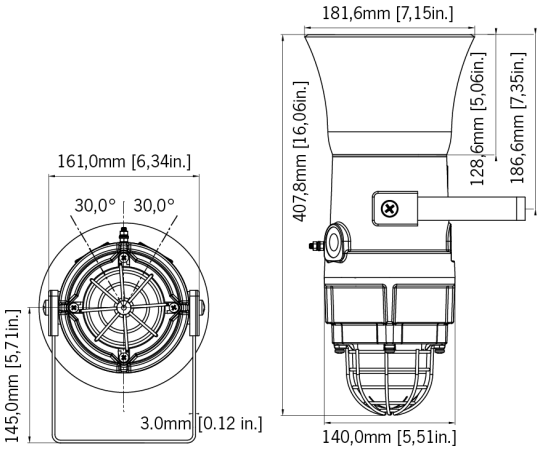
- Automatic synchronisation on multi sounder systems.
- User selectable strobe flash rates – dual Xenon flash tubes
- Ratchet adjustable stainless steel 'U' bracket.
- High output alarm horn, up to 117dB(A)
- Xenon strobe – private mode fire alarm use
- Alarm horn – public mode fire alarm use
- 4 remotely selectable alarm stages/channels
- Positive or negative line stage/channel switching
- Choice of 64 alarm tone frequencies
- Compact form factor
- Robust corrosion proof aluminium enclosure
- Stainless steel fixings
- Triple cable entries
- Duplicate cable terminations

Approvals

- UL File ref: E230764
  UL1203 Ed. 5
  CAN/CSA C22.2 No. 25-1966
  CSA C22.2 No. 30-M1986
  CSA C22.2 No. 205-12
  UL464 Ed. 9
  UL1638 Ed. 4
- CSFM listing: 7136-2279:0506

Coding

- **A1: Gas version**
  NEC / CEC:
  Class I Div 1 ABCD T5/T6 Ta -40°C to +55/+50°C
  Class I Div 2 ABCD T5/T6 Ta -40°C to +55/+50°C
  Class I Zone 1, 2 IIC T5/T6 Ta -40°C to +55/+50°C
- Protection concept: Ex d / AEx d



Specification

Alarm Horn:	
Maximum output:	117dB(A) @ 1 metre [108dB(A) @ 10ft/3m]
Nominal output:	113dB(A) @ 1m +/- 3dB – Tone 2 [104dB(A) @ 10ft/3m]
No. of tones:	64 (UKOOA / PFEER compliant)
No. of stages:	4
Volume control:	Adjustable -12dB(A)
Effective range:	125m/410ft @ 1KHz
Supply Voltages:	24Vdc; 115Vac; 230Vac
Stage switching:	DC units: negative or positive AC units: common supply line
Strobe Beacon:	
Energy:	10 Joules (10Ws)
Flash rates:	Option 1: 1Hz (60 fpm) Option 2: 1.5Hz (90 fpm) Option 3: Double Strike
Peak Candela:	1,000,000 cd – calculated from energy (J)
Effective Intensity:	500 cd – calculated from energy (J)
Peak Candela:	85,544 cd* – measured ref. to I.E.S.
Effective Intensity:	260 cd* – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Tube life :	Emissions are reduced to 70% after 5 million flashes
General:	
Ingress protection:	EN60529: IP66 UL50E / NEMA250: 4 / 4X / 3R / 13
Enclosure material:	Marine grade aluminium LM6- copper free Chromated & powder coated – corrosion proof
Colour:	Red (RAL3000), Grey (RAL7038)
Cable entries:	1 × 1/2"NPT & 2 x M20 x 1.5mm 1 × 1/2"NPT & 2 × 1/2"NPT 1 × 1/2"NPT & 2 × 3/4"NPT
Terminals:	0.5 – 2.5mm² (20-14 AWG)
Grounding stud:	M5
Operating temp:	24Vdc & 115Vac: -40° to +70°C [-40° to +158°F] 230Vac: -40° to +55°C [-40° to +131°F]
Storage temp:	-50° to +70°C [-58° to +158°F]
Relative humidity:	95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist

Part Codes

Version:	Part code:	
Product type:	D1xC1X10	
Horn type:	F	Flare re-entrant horn
Voltage:	DC024 AC115 AC230	20-28V dc 110-120V ac 220-240V ac
Cable Entry Type: [e]	A B C	1 × 1/2"NPT & 2 x M20 x 1.5mm 1 × 1/2"NPT & 2 × 1/2"NPT 1 × 1/2"NPT & 2 × 3/4"NPT
Adaptor/Stopping plug material: [m]	B N S	Brass Nickel Plated Stainless Steel
Bracket/Guard matl & tag: [s]	1 2 3 4	A2 304 Stainless Steel A4 316 Stainless Steel A2 304 St/St with Equip. Tag A4 316 St/St with Equip. Tag
Product version: [v]	A1	Gas environments Class I/Zone1
Enclosure colour: [x]	G R	Grey RAL7038 Red RAL3000
Lens colour: [y]	A, B, C, G M, R, Y	Amber, Blue, Clear, Green Magenta, Red, Yellow
Accessories:	SP65-0001-A2 SP65-0001-A4 SP65-0003-A2 SP65-0003-A4	Pole Mount Bracket Kit 2" St/St A2 (304) Pole Mount Bracket Kit 2" St/St A4 (316) Sunshade – St/St A2 (304) Sunshade – St/St A4 (316)

Current Consumption

Voltage:	Range:	Alarm Horn	Xenon Strobe	Combined
24V dc	20-28Vdc	217mA	673mA	890mA
115V ac	110-120Vac 50/60Hz	76mA	247mA	323mA
230V ac	220-240Vac 50/60Hz	53mA	120mA	173mA

Tone table

S 1	Description
T1	1000 Continuous PFEER Toxic Gas
T2	1200/500 @ 1Hz Sweeping DIN/PFEER P.T.A.P.
T3	1000 @ 0.5Hz (1s on, 1s off) Intermittent PFE...
T4	1.4KH-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s NF C 48-265
T5	544(100mS)/440 (400mS) NF S 32-001
T6	1500/500 - (0.5s on , 0.5s off) x3 + 1s gap A...
T7	500-1500Hz Sweeping 2 sec on 1 sec off AS4428
T8	500/1200Hz @ 0.26Hz(3.3s on, 0.5s off) NEN 2575
T9	1000 (1s on, 1s off)x7 + (7s on, 1s off) IMO ...
T10	1000 (1s on, 1s off)x7 + (7s on, 1s off) IMO ...
T11	420(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Te...
T12	1000(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 T...
T13	422/775 (0.85 on, 0.5 off) x3 + 1s gap NFPA T...
T14	1000/2000 @ 1Hz - Singapore
T15	300 Continuous
T16	440 Continuous
T17	470 Continuous
T18	500 Continuous IMO code 2 (Low)
T19	554 Continuous
T20	660 Continuous
T21	800 Continuous IMO code 2 (High)
T22	1200 Continuous
T23	2000 Continuous
T24	2400 Continuous
T25	440 @ 0.83Hz (0.60s on, 0.60s off) Intermittent
T26	470 @ 0.9Hz (0.55s on, 0.55s off) Intermittent
T27	470 @ 5Hz (0.10s on, 0.10s off) Intermittent
T28	544 @ 1.14Hz (0.43s on, 0.44s off) Intermittent
T29	655 @ 0.875Hz (0.57s on, 0.57s off) Intermittent
T30	660 @ 0.28Hz (1.80s on, 1.80s off) Intermittent
T31	660 @ 3.3Hz (0.15s on, 0.15s off) Intermittent
T32	745 @ 1Hz (0.50s on, 0.50s off) Intermittent

S 1	Description
T33	800 (0.25s on, 1.00s off) Intermittent
T34	800 @ 2Hz (0.25s on, 0.25s off) IMO code 3.a ...
T35	1000 @ 1Hz (0.50s on, 0.50s off) Intermittent
T36	2400 @ 1Hz (0.50s on, 0.50s off) Intermittent
T37	2900 @ 5Hz (0.10s on, 0.10s off) Intermittent
T38	363/518 @ 1Hz (0.50s/0.50s) Alternating
T39	450/500 @ 2Hz (0.25s/0.25s) Alternating
T40	554/440 @ 1Hz (0.50s/0.50s) Alternating
T41	554/440 @ 0.65Hz (0.76s/0.76s) Alternating
T42	561/760 @ 0.83Hz (0.60s/0.60s) Alternating
T43	780/600 @ 0.96Hz (0.52s/0.52s) Alternating
T44	800/1000 @ 2Hz (0.25s/0.25s) Alternating
T45	970/800 @ 2Hz (0.25s/0.25s) Alternating
T46	800/1000 @ 0.875Hz (0.57s/0.57s) Alternating
T47	2400/2900 @ 2Hz (0.25s/0.25s) Alternating
T48	500/1200 @ 0.3Hz (1.67s/1.67s) Sweeping
T49	560/1055 @ 0.18Hz (2.73s/2.73s) Sweeping
T50	560/1055 @ 3.3Hz (0.15s/0.15s) Sweeping
T51	600/1250 @ 0.125Hz (4s/4s) Sweeping
T52	660/1200 @ 1Hz (0.50s/0.50s) Sweeping
T53	800/1000 @ 1Hz (0.50s/0.50s) Sweeping
T54	800/1000 @ 7Hz (0.07s/0.07s) Sweeping
T55	800/1000 @ 50Hz (0.01s/0.01s) Sweeping
T56	2400/2900 @ 7Hz (0.07s/0.07s) Sweeping
T57	2400/2900 @ 1Hz (0.50s/0.50s) Sweeping
T58	2400/2900 @ 50Hz (0.01s/0.01s) Sweeping
T59	2500/3000 @ 2Hz (0.25s/0.25s) Sweeping
T60	2500/3000 @ 7.7Hz (0.65s/0.65s) Sweeping
T61	800Hz Motor Siren
T62	1200Hz Motor Siren
T63	2400Hz Motor Siren
T64	Simulated Bell