

# E2xCS112-5F Combination Alarm

The hazardous area E2xCS112-5 combined alarm sounder and Xenon strobe beacon is UL/cULs approved for Class I Div 2 and Class II Div 2 as well as IECEx and ATEX certified for Zone 2 and 22 applications.

The E2xCS112-5 combines a 116dB(A) alarm sounder with a 5 Joule Xenon strobe beacon providing a complete audio-visual signalling solution whilst reducing the installation time and costs associated with multiple unit installations.

The E2x range features enclosures manufactured from lightweight, corrosion proof PPS and high impact, fire retardant ABS re-entrant flare horns; both of which are suitable for the harshest of environments.

Authorized Distributor:  
GasDetectorsUSA.com  
Houston, TX USA  
832-615-3588  
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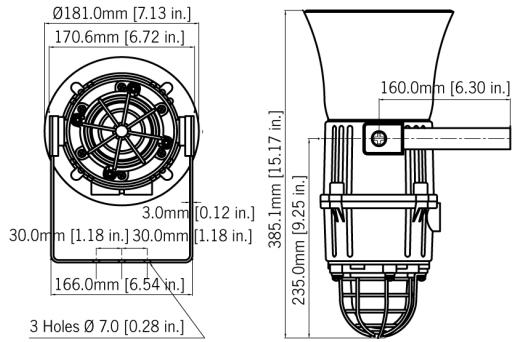
## Features

- Very large termination area.
- Ratchet adjustable stainless steel 'U' bracket.
- Stainless Steel dome guard as standard
- Xenon tube mechanically secured against vibration/shock.
- User replaceable Xenon tube assembly.
- Automatic synchronisation on multi-sounder system.

## Approvals

- ATEX certificate: DEMKO 06 ATEX 0421554X,  
EN60079-0:2012 + A11:2013,  
EN60079-15:2010,  
EN60079-31:2014
- IECEx certificate: IECEx ULD 14.0012X,  
IEC 60079-0:2011,  
IEC 60079-15:2010,  
IEC 60079-31:2013
- UL File ref: E230764





## Specification

### Alarm Sander:

Maximum output:	116dB(A) @ 1 metre [107dB(A) @ 10ft/3m]
Nominal output:	113dB(A) @ 1m +/- 3dB - Tone 2 [104dB(A) @ 10ft/3m]
No. of tones:	45 (UKOOA/PFEER compliant)
No. of stages:	3
Volume control:	Max. 113dB(A) Min. 105dB(A) - Tone 2
Effective range:	100m/328ft @ 1KHz

### Beacon:

Energy:	5 Joules (5Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	500,000 cd - calculated from energy (J)
Effect. Intensity cd:	250 cd - calculated from energy (J)
Peak Candela:	31,950 cd* - measured ref. to I.E.S.
Effect. Intensity cd:	101 cd* - measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Red & Yellow

### General:

Voltages:	24vdc; 48vdc; 115vac; 230vac
Ingress protection:	IECEX/ATEX: IP66 & IP67 UL: Type 4, 4X & 13
Housing material:	UL94V0 PPS & ABS
Cable entries:	Dual M20x1.5 or 1/2"NPT
Terminals:	0.5 to 2.5mm <sup>2</sup> - In and Out
Weight:	DC: 3.00kg/6.6lbs AC: 3.50kg/7.7lbs

\* All candela data is representative of performance with clear lens at optimum voltage.

### Classification:

UL/cULs:	Class I, Div 2, ABCD T2D (215°C) at 55°C Class I, Div 2, ABCD T3 (200°C) at +40°C Class II, Div 2, FG T5 (100°C) at +55°C Class II, Div 2, FG T6 (85°C) at +40°C Class III, Div 1&2, T5 (100°C) at +55°C Class III, Div 1&2, T6 (85°C) at +40°C
IECEX/ATEX:	II 3G Ex nA IIC T3 Gc Ta. -20°C to +40°C II 3G Ex nA IIC T2 Gc Ta. -20°C to +55°C II 3D Ex tc IIIC T85°C Dc Ta. -20°C to +40°C IP64 II 3D Ex tc IIIC T100°C Dc Ta. -20°C to +55°C IP64

## Part Codes

### Part Code: Ident.: Description:

Product type:	E2xCS1125	
Flare type:	F	Flare Horn
Voltage:	AC115	115V ac 50/60Hz
	AC230	230V ac 50/60Hz
	DC024	24V dc
	DC048	48V dc
Cable entries:	A	M20x1.5 & 1/2" NPT
	B	M20x1.5 & M20x1.5
	C	1/2" NPT & 1/2" NPT
Bracket & Guard:	1	304 (A2) Stainless Steel
	2	316 (A4) Stainless Steel
Approvals:	A1	UL, cULs, IECEx & ATEX
Enclosure:	B	Black
Lens colour:	A	Amber
	B	Blue
	C	Clear
	G	Green
	R	Red
	Y	Yellow

e.g: E2x Combined unit with flare horn in 115Vac  
E2xCS1125FAC115A1A1B/A with one M20 cable entry and one 1/2"NPT entry.  
Approved to IECEx, ATEX & UL.  
Black enclosure with Amber lens.

Replacement Xenon flash tube: FTASSYE2X

## Current Consumption

Version:	Alarm Sander		Xenon Beacon	
	Voltage:	Current:	Voltage:	Current
24V dc	10-30V dc	284mA	20-28V dc	275mA
48V dc	38-58V dc	146mA	42-58V dc	145mA
115V ac	+/-10%	104mA	+/-10%	80mA
50/60Hz				
230V ac	+/-10%	54mA	+/-10%	30mA
50/60Hz				

\*Candela measurements representative of performance with clear lens at optimum voltage. SPL readings are at nominal voltage, typically +/-3dB and are for indication purposes only. Where applicable, reduce outputs by 5dB when a 10-30vdc unit is supplied 12vdc.

### Tone table

S 1	Description	S 2	S 3	S 1	Description	S 2	S 3
T 1	340 Hz Continuous	T 2	T 5	T 33	745Hz @ 1Hz Intermittent	T 2	T 5
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5	T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	T 38	T 45
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5	T 35	420Hz @ 0.625 sec Australian Alert	T 36	T 5
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5	T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	T 35	T 5
T 5	2400Hz Continuous	T 3	T 20	T 37	1000Hz Continuous - PFEER Toxic Gas	T 9	T 45
T 6	2400/2900Hz @ 7Hz Sweeping	T 7	T 5	T 38	2000Hz Continuous	T 34	T 45
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5	T 39	800Hz 0.25sec on, 1 sec off Intermittent	T 23	T 17
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5	T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 31	T 27
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 15	T 2	T 41	Motor Siren - slow rise to 1200 Hz	T 2	T 5
T 10	2400/2900Hz @ 2Hz Alternating	T 7	T 5	T 42	Motor Siren - slow rise to 800 Hz	T 2	T 5
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5	T 43	1200 Hz Continuous	T 2	T 5
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5	T 44	Motor Siren - slow rise to 2400 Hz	T 2	T 5
T 13	2400Hz @ 1Hz Intermittent	T 15	T 5	T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...	T 38	T 34
T 14	800Hz 0.25sec on, 1 sec off Intermittent	T 4	T 5				
T 15	800Hz Continuous	T 2	T 5				
T 16	660Hz 150mS on, 150mS off Intermittent	T 18	T 5				
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 2	T 27				
T 18	660Hz 1.8sec on, 1.8sec off Intermittent	T 2	T 5				
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48265	T 2	T 5				
T 20	660Hz Continuous	T 2	T 5				
T 21	554Hz/440Hz @ 1Hz Alternating	T 2	T 5				
T 22	544Hz @ 0.875 sec. Intermittent	T 2	T 5				
T 23	800Hz @ 2Hz Intermittent	T 6	T 5				
T 24	800/1000Hz @ 50Hz Sweeping	T 29	T 5				
T 25	2400/2900Hz @ 50Hz Sweeping	T 29	T 5				
T 26	Bell	T 2	T 15				
T 27	554Hz Continuous	T 26	T 5				
T 28	440Hz Continuous	T 2	T 5				
T 29	800/1000Hz @ 7Hz Sweeping	T 7	T 5				
T 30	300Hz Continuous	T 2	T 5				
T 31	660/1200Hz @ 1Hz Sweeping	T 26	T 5				
T 32	Two T chime.	T 26	T 15				