E2xCS112-5

Combined Alarm Sounder and Xenon Strobe Beacon

The hazardous area E2xCS112-5 combined alarm sounder and Xenon strobe beacon is ATEX certified for Zone 2 applications and also UL approved for Class I Div 2 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.

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 0421554, EN 50021: 1999
- UL File ref: E230764

Part codes:

Part Code:	Classification:
ATEX version:	
E2xCS1125EG**	II 3G EEx nA nL IIC T2 (Tamb -20°C to +55°C)
	II 3G EEx nA nL IIC T3 (Tamb -20°C to +40°C)
UL version:	
E2xCS1125UL**	Class I, Div 2, Grps A,B,C,D T2D (215°C) at +55°C
	Class I, Div 2, Grps A,B,C,D T3 (200°C) at +40°C
	Class II, Div 2, Grps F & G T6 (85°C) at +40°C
	Class III, Div 1, T6 (85°C) at +40°C
	Class III, Div 1, T5 (100°C) at +55°C

** = Voltage & lens colour reference:

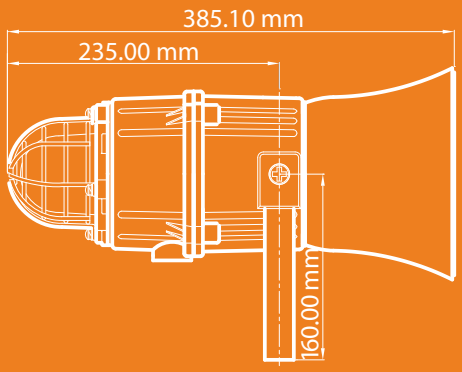
Voltage options:	12DC, 24DC, 48DC, 115AC, 230AC
Lens colour options:	-AM (Amber) -BL (Blue) -CL (Clear) -GN (Green) -RD (Red) -YW (Yellow)
Replacement Xenon flash tube: FTASSYE2X	

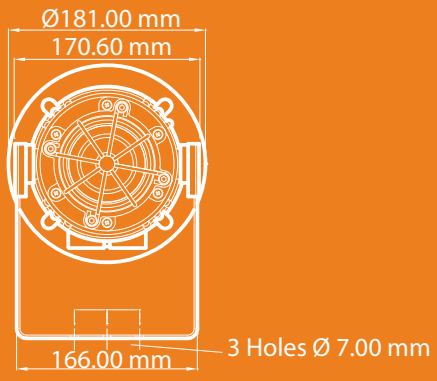
Current consumption:

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

Effective Candela lens colour factor:

Amber	Blue	Clear	Green	Red	Yellow
0.51	0.12	1.00	0.49	0.15	0.86





Specification:

Alarm Sounder:	
Maximum output:	116dB(A) @ 1 metre
Nominal output:	311xdB(A) @ 1m +/- 3dB - Tone 2
No. of tones:	45 (UKOOA/PFEER compliant)
No. of stages:	3
Volume control:	Max. 113dB(A); Min. 105dB(A) - Tone 2
Effective range:	100m @ 1KHz
Beacon:	
Energy:	5 Joules (5Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	31,950 cd
Effective Intensity cd:	101 cd*
Lens colours:	Amber, Blue, Clear, Green, Red & Yellow
General:	
Voltages DC:	24vdc; 48vdc
Voltages AC:	115vac; 230vac
Ingress protection:	ATEX: IP66 & IP67 UL: Type 4, 4X & 13
Housing material:	UL94V0 PPS & ABS
ATEX cable entries:	2 x M20 ISO cable gland entries - with 1 blanking plug.
UL cable entries:	1 x 1/2"NPT cable gland entry - with 0.5m flying leads.
Terminals (ATEX):	0.5 to 4.0mm² - In & Out
Weight :	DC: 3.00Kg AC: 3.50kg

*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.

Stage1	Frequency Description	dB @ 1m*	Stage2	Stage3
Tone 1	340 Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone	113dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000	113dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	113dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	116dB(A) @ 1m	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	114dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	114dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	113dB(A) @ 1m	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	113dB(A) @ 1m	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	116dB(A) @ 1m	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	112dB(A) @ 1m	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	112dB(A) @ 1m	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	116dB(A) @ 1m	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	113dB(A) @ 1m	Tone 4	Tone 5
Tone 15	800Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	109dB(A) @ 1m	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	109dB(A) @ 1m	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - AFNOR NFC48-265	114dB(A) @ 1m	Tone 2	Tone 5
Tone 20	660Hz Continuous	109dB(A) @ 1m	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	109dB(A) @ 1m	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	113dB(A) @ 1m	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	112dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	114dB(A) @ 1m	Tone 29	Tone 5
Tone 26	Bell	108dB(A) @ 1m	Tone 2	Tone 15
Tone 27	554Hz Continuous	109dB(A) @ 1m	Tone 26	Tone 5
Tone 28	440Hz Continuous	106dB(A) @ 1m	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	112dB(A) @ 1m	Tone 7	Tone 5
Tone 30	300Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	112dB(A) @ 1m	Tone 26	Tone 5
Tone 32	Two tone chime.	108dB(A) @ 1m	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	109dB(A) @ 1m	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert - AS2220	114dB(A) @ 1m	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac. - AS2220	108dB(A) @ 1m	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	113dB(A) @ 1m	Tone 9	Tone 45
Tone 38	2000Hz Continuous	112dB(A) @ 1m	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	114dB(A) @ 1m	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	113dB(A) @ 1m	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	112dB(A) @ 1m	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	114dB(A) @ 1m	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	116dB(A) @ 1m	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	112dB(A) @ 1m	Tone 38	Tone 34

E2S, Impress House, Mansell Road, London, UK, W3 7QH Telephone +44 20 8743 8880 www.e2s.com

e2S warning signals