

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



Specification

Alarm Sounder:

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)
Effective Intensity cd:	250 cd - calculated from energy (J)
Peak Candela:	31,950 cd* - measured ref. to I.E.S.
Effective Intensity cd:	101 cd* - measured ref. to I.E.S.
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 & 1 x M20 with blanking plug
Terminals:	0.5 to 2.5mm ² - In and I/O
Weight:	DC: 3.00Kg/6.6lbs AC: 3.50kg/7.7lbs

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 II, Div 2, Grps F & G T5 (85°C) at +55°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

Version:	Alarm Sounder		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 50/60Hz	+/-10%	104mA	+/-10%	80mA
230V ac 50/60Hz	+/-10%	54mA	+/-10%	30mA

*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 @ 2 Hz 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				