

E2xC1X05F Combination Alarm Horn & Xenon Beacon

The hazardous location E2xC1X05F 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 E2xC1X05F 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

- Ratchet adjustable stainless steel 'U' bracket.
- Stainless Steel dome guard as standard
- Xenon tube mechanically secured against vibration/shock.
- Automatic synchronisation on multi-sounder system.
- Duplicate cable terminations.
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.

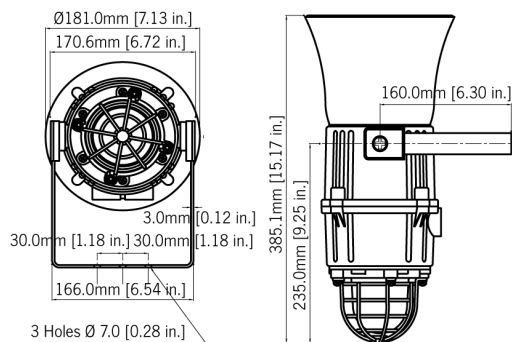
Approvals

- ATEX certificate: DEMKO 06 ATEX 0421554X,
- IECEx certificate: IECEx ULD 14.0012X
- UL/cUL File ref: E230764
- UKCA certificate: UL21UKEX2135X
- Ex EAC certified: EAC RU C-GB.AA71.B.00273/20

Coding

- IECEx / ATEX:
 - II 3G Ex ec IIC T3 Gc Ta -20°C to +40°C
 - II 3G Ex ec IIC T2 Gc Ta -20°C to +55°C
 - II 3D Ex tc IIIC T85°C Dc Ta -20°C to +40°C
 - II 3D Ex tc IIIC T100°C Dc Ta -20°C to +55°C
- NEC Class / Zone ratings US:
 - Class I Zone 2 AEx ec IIC T3 Gc Ta -20°C to +40°C
 - Class I Zone 2 AEx ec IIC T2 Gc Ta -20°C to +55°C
 - Zone 22 AEx tc IIIB T85°C Dc Ta -20°C to +40°C
 - Zone 22 AEx tc IIIB T00°C Dc Ta -20°C to +55°C
- CEC Class / Zone ratings Canada
 - Class I Zone 2 Ex ec IIC T3 Gc X Ta -20°C to +40°C
 - Class I Zone 2 Ex ec IIC T2 Gc X Ta -20°C to +55°C
 - Zone 22 Ex tc IIIC T85°C Dc Ta -20°C to +40°C
 - Zone 22 Ex tc IIIC T100°C Dc Ta -20°C to +55°C
- NEC & CEC Class / Division Ratings for US / Canada
 - Class I Div 2 Group ABCD T2D Ta -20°C to +55°C
 - Class I Div 2 Group ABCD T3 Ta -20°C to +40°C
 - Class II Div 2 Group FG T5 Ta -20°C to +55°C
 - Class II Div 2 Group FG T6 Ta -20°C to +40°C
 - Class III Div 1 & 2 Ta -20°C to +55°C





Specification

Alarm Horn

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 (UK00A/PFEER compliant)

No. of stages: 3

Volume control: Max. 113dB(A) Min. 105dB(A) - Tone 2

Effective range: 100m/328ft @ 1KHz

Xenon Strobe

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: 34,122 cd* - measured ref. to I.E.S.

Effective Intensity cd: 108 cd* - measured ref. to I.E.S.

Lens colours: Amber, Blue, Clear, Green, Magenta, Red & Yellow

General:

Voltages: 24Vdc; 48Vdc; 115Vac; 230Vac

Ingress protection: IP rating per EN60079-0:IP64
IP rating per EN60529:IP66
Type rating per UL50E/NEMA250:4/4X/13

Enclosure material: UL94V0 GRP (PPS) & ABS

Lens material: Borosilicate glass dome with PC prismatic lens cover.

Guard: Stainless Steel dome guard as standard

Cable entries: Dual M20x1.5 or 1/2"NPT

Terminals: 0.5 - 2.5mm² (20-14 AWG)

Line monitoring: Blocking diode included
EOL can be factory fitted

Operating temp: -20 to +55°C [-4° to +131°F]

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

Relative humidity: 90% at 20°C [68°F]

Weight: DC: 3.00kg/6.6lbs AC: 3.50kg/7.7lbs

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

Part Codes

Part Code:	Ident.:	Description:
Product type:	E2xC1X05	Combined alarm horn & Xenon
Type:	F	Flare re-entrant horn
Voltage:	AC115 AC230 DC024 DC048	115Vac 50/60Hz 230Vac 50/60Hz 24Vdc (20-28Vdc) 48Vdc (42-54Vdc)
Cable entries:[e]	A B C	M20x1.5 & ½" NPT M20x1.5 & M20x1.5 ½" NPT & ½" NPT
Stopping plug material: [m]	N	Nylon
Bracket & Guard tag: [s]	1 2 3 4	304 A2 Stainless Steel 316 A4 Stainless Steel 304 A2 Stainless Steel & Equip. Tag 316 A4 Stainless Steel & Equip. Tag
Version: [v]	A1	UL, cULs, IECEx & ATEX
Enclosure: [x]	B	Black
Lens colour: [y]	A, B, C G, M, R Y	Amber, Blue, Clear Green, Magenta, Red Yellow
Accessories:	SP65-0001-A4 SP65-0003-A4	Pole Mount Bracket Kit St/St A4 (316) Sunshade - St/St A4 (316)

Current Consumption

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

Tone table

S 1	Description	S 2	S 3
T 1	340 Hz Continuous	T 2	T 5
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5
T 5	2400Hz Continuous	T 3	T 20
T 6	2400/2900Hz @ 7Hz Sweeping	T 7	T 5
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 15	T 2
T 10	2400/2900Hz @ 2Hz Alternating	T 7	T 5
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5
T 13	2400Hz @ 1Hz Intermittent	T 15	T 5
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 -NFC48-265	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

S 1	Description	S 2	S 3
T 33	745Hz @ 1Hz Intermittent	T 2	T 5
T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	T 38	T 45
T 35	420Hz @ 0.625 sec Australian Alert	T 36	T 5
T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	T 35	T 5
T 37	1000Hz Continuous - PFEER Toxic Gas	T 9	T 45
T 38	2000Hz Continuous	T 34	T 45
T 39	800Hz 0.25sec on, 1 sec off Intermittent	T 23	T 17
T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 31	T 27
T 41	Motor Siren - slow rise to 1200 Hz	T 2	T 5
T 42	Motor Siren - slow rise to 800 Hz	T 2	T 5
T 43	1200 Hz Continuous	T 2	T 5
T 44	Motor Siren - slow rise to 2400 Hz	T 2	T 5
T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...	T 38	T 34