

BExDCS110-05D – BExDCS110-L1



- Electronic sounder with xenon or multi-function LED beacon
- Ex d IIB zone 1, 2, 21 and 22 (IECEx)
- 32 tones, includes ISO tones to Australian Standards
- Automatic synchronization on multi-sounder systems*
- Automatic synchronized flash or flip-flop alternating mode* (xenon only)
- Sounder and beacon controlled independently
- Volume control
- Three stage alarm (three stage LED beacon)
- IP66



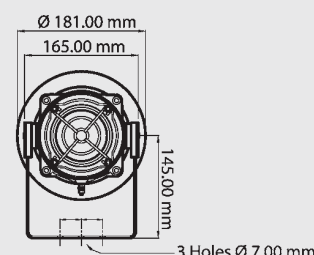
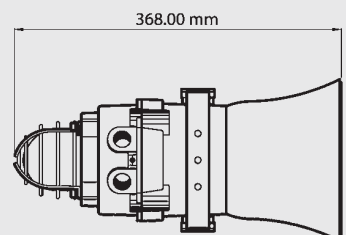
Order Code	Voltage	Current Sounder	Current Beacon
BExDCS110-05D – 5J xenon			
ESS6805X*	12VDC ±25%	195mA	750mA
ESS6810X*	24VDC ±25%	265mA	350mA
ESS6815X*	48VDC ±25%	130mA	180mA
ESS6820X*	115VAC ±10%	110mA	140mA
ESS6830X*	230VAC ±10%	56mA	55mA
BExDCS110-L1 – LED			
ESS6845X*	12VDC ±25%	195mA	400mA @ 24VDC
ESS6850X*	24VDC ±25%	265mA	
ESS6855X*	48VDC ±25%	130mA	
ESS6860X*	115VAC ±10%	110mA	
ESS6870X*	230VAC ±10%	56mA	

*Specify colour A = Amber, B = Blue, G = Green, R = Red, Y= Yellow

Specifications:

Sound output:	Max 117dB @ 1m
Sound frequency:	32 tones see tone list on page 345
Flash energy:	Xenon - 5J
Light output:	Xenon -105cd(e) LED -11cd(e)
Flash rate:	Xenon - 60fpm LED – multi-function see list on page 330
Duty:	continuous
Protection:	IP66 (IP67)
Temp rating (°C):	T4 -50 to +70°C
Cable entry:	2 x M20 ISO (one stopping plug included)
Construction:	LM6 aluminium housing, glass lens, stainless steel guard and mounting bracket
Weight:	DC - 4.80kg, AC - 5.40kg
Approval:	II 2G Ex d IIB T4 (max ambient temperature +70°C) II 2D Ex tD A21 IP67 T115 (DIP)
Certificate:	IECEx (KEM 10.0025)

* Synchronization requires sounders to be connected to the same supply



3 Holes Ø 7.00 mm

HAZARDOUS AREA SIGNALS

Electronic Sounder Tones



BExDS 110-BEx DS120 Tones

Stage 1	Description	Sound Output db@1m	Stage 2	Stage 3
Tone 1	1000 Hz Continuous	110/117dB	Tone 31	Tone 11
Tone 2	800/1000Hz @ 0.25 sec Alternating	110/117dB	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	110/118dB	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	110/117dB	Tone 6	Tone 5
Tone 5	2400Hz Continuous	109/114dB	Tone 3	Tone 27
Tone 6	2400/2900Hz @ 7Hz Sweeping	109/114dB	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	110/111dB	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	110/118dB	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	110/118dB	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	109/113dB	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	110/118dB	Tone 31	Tone 1
Tone 12	800/1000Hz @ 0.875Hz Alternating	110/118dB	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	109/115dB	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	103/108dB	Tone 4	Tone 5
Tone 15	800Hz Continuous	103/108dB	Tone 2	Tone 5
Tone 16	AS2220: 420Hz repeating 0.625 sec on 0.625 sec off	104//109dB	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	107/110dB	Tone 2	Tone 27
Tone 18	AS2220: 500-1200Hz Sweeping 3.75 sec on 0.25 sec off (15 cycles/min)	110/118dB	Tone 16	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	117/121dB	Tone 2	Tone 5
Tone 20	660Hz Continuous	104/108dB	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	107/109dB	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	107/109dB	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	103/108dB	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	107/114dB	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	109/114dB	Tone 29	Tone 5
Tone 26	1000Hz @ 1Hz Intermittent	110/118dB	Tone 5	Tone 2
Tone 27	554Hz Continuous	107/109dB	Tone 26	Tone 5
Tone 28	440Hz Continuous	104/109dB	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	106/113dB	Tone 7	Tone 5
Tone 30	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	110/118dB	Tone 32	Tone 5
Tone 31	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P	110/118dB	Tone 11	Tone 1
Tone 32	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	110/118dB	Tone 26	Tone 1

GNEs1/S2Tones

Stage 1	Description	Sound Output db@1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	107/113dB	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	112/121dB	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	113/121dB	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	113/121dB	Tone 6	Tone 5
Tone 5	2400Hz Continuous	119/125dB	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	116/123dB	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	116/125dB	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	113/121dB	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	113/121dB	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	119/126dB	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	112/121dB	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	112/121dB	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	119/125dB	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	113/120dB	Tone 4	Tone 5
Tone 15	800Hz Continuous	113/120dB	Tone 2	Tone 5
Tone 16	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	113/121dB	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	109/118dB	Tone 2	Tone 27
Tone 18	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	113/121dB	Tone 16	Tone 5



GNEsS1/S2Tones continued

Stage 1	Description	Sound Output db@1m	Stage 2	Stage 3
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - NFC48-265	114/126dB	Tone 2	Tone 5
Tone 20	660Hz Continuous	109/118dB	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	109/118dB	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	109/118dB	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	113/120dB	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	112/120dB	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	116/124dB	Tone 29	Tone 5
Tone 26	Bell	108/118dB	Tone 2	Tone 15
Tone 27	554Hz Continuous	109/117dB	Tone 26	Tone 5
Tone 28	440Hz Continuous	106/117dB	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	112/121dB	Tone 7	Tone 5
Tone 30	300Hz Continuous	107/114dB	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	112/121dB	Tone 26	Tone 5
Tone 32	Two tone chime.	108/118dB	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	109/116dB	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	109/121dB	Tone 38	Tone 45
Tone 35	AS2220: 420Hz @ 0.625 sec Australian Alert	106/117dB	Tone 36	Tone 5
Tone 36	AS2220: 500-1200Hz 3.75sec /0.25sec. Australian Evac.	113/121dB	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	113/121dB	Tone 9	Tone 45
Tone 38	2000Hz Continuous	112/120dB	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	116/120dB	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	113/121dB	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	112/122dB	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	114/121dB	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	113/122dB	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	118/124dB	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	112/121dB	Tone 38	Tone 34

IS-A105N - IS-MA1 and IS-MC1Tones

Stage 1	Description	Stage 2	Stage 3
Tone 1	340 Hz Continuous	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	Tone 6	Tone 5
Tone 5	2400Hz Continuous	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	Tone 4	Tone 5
Tone 15	800Hz Continuous	Tone 2	Tone 5
Tone 16	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	Tone 2	Tone 27
Tone 18	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	Tone 16	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	Tone 2	Tone 5
Tone 20	660Hz Continuous	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	Tone 29	Tone 5

IS-A105N - IS-MA1 and IS-MC1Tones continued

Stage 1	Description	Stage 2	Stage 3
Tone 25	2400/2900Hz @ 50Hz Sweeping	Tone 29	Tone 5
Tone 26	Bell	Tone 2	Tone 15
Tone 27	554Hz Continuous	Tone 26	Tone 5
Tone 28	440Hz Continuous	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	Tone 7	Tone 5
Tone 30	300Hz Continuous	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	Tone 26	Tone 5
Tone 32	Two tone chime.	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	Tone 9	Tone 45
Tone 38	2000Hz Continuous	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	Tone 38	Tone 34
Tone 46	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	Tone 47	Tone 37
Tone 47	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	Tone 46	Tone 37
Tone 48	AS2220: 420Hz @ 0.625 sec Australian Alert	Tone 49	Tone 5
Tone 49	AS2220: 500-1200Hz 3.75sec /0.25sec. Australian Evac.	Tone 26	Tone 37