Hazardous Location Horns And Beacons

Build a Catalog Number

Alarm Horn Sounders

855XH – BN D30 B
a b c

a		b		c	
Product Type		**Voltage**		**Horn Type**	
Code	**Description**	**Code**	**Description**	**Code**	**Description**
BN	1/2 in. NPT conduit entrance, black housing	D30	10…30V DC	A	110 dB @ 1 m/45 tone/3 stage
		D48	48V DC	B	117 dB @ 1 m/45 tone/3 stage
		A10	115…120V AC		
		A20	220…230V AC		

Supply Voltage	Sound Output	Cat. No.
10…30V DC	110 dB @ 1 m, 45 selectable tones, 3 stages	855XH-BND30A
	117 dB @ 1 m, 45 selectable tones, 3 stages	855XH-BND30B
115…120V AC	110 dB @ 1 m, 45 selectable tones, 3 stages	855XH-BNA10A
	117 dB @ 1 m, 45 selectable tones, 3 stages	855XH-BNA10B

Xenon Strobe Beacons

855XB – BN A10 B 4
a b c d

a		b		c		d	
Product Type		**Voltage**		**Beacon Type**		**Lens Color**	
Code	**Description**	**Code**	**Description**	**Code**	**Description**	**Code**	**Description**
BN	1/2 in. NPT conduit entrance, black housing	D12	12V DC⋆	A	Xenon strobe - 5 J, 1 Hz	3	Green
		D24	24V DC	B	Xenon strobe - 10 J, 1 Hz	4	Red
		D48	48V DC			5	Amber
		A10	115…120V AC			6	Blue
		A20	220…230V AC			7	Clear
						8	Yellow

⋆ The 12V DC voltage is only configurable with the Xenon, 5 J beacon type.

Supply Voltage	Beacon Type	Lens Color	Cat. No.
24V DC	Xenon Strobe - 5 J, 1 Hz	Red	855XB-BND24A4
		Amber	855XB-BND24A5
	Xenon Strobe - 10 J, 1 Hz	Red	855XB-BND24B4
		Amber	855XB-BND24B5
115...120V AC	Xenon Strobe - 5 J, 1 Hz	Red	855XB-BNA10A4
		Amber	855XB-BNA10A5
	Xenon Strobe - 10 J, 1 Hz	Red	855XB-BNA10B4
		Amber	855XB-BNA10B5

Combined Horn Sounder & Strobe Beacon

855XC – BN A10 A 3

a b c d

a	
Product Type	
Code	**Description**
BN	1/2 in. NPT conduit entrance, black housing

b	
Voltage	
Code	**Description**
D24	24V DC
D48	48V DC
A10	115...120V AC
A20	220...230V AC

c	
Beacon Type	
Code	**Description**
A	Xenon strobe - 5 J, 110 dB @ 1 m, 45 tones, 3 stages

d	
Lens Color	
Code	**Description**
3	Green
4	Red
5	Amber
6	Blue
7	Clear
8	Yellow

Beacon Type	Supply Voltage	Beacon Lens Color	Cat. No.
Xenon 5 J, 110 dB at 1 m, 45 selectable tones, 3 stages	24V DC	Green	855XC-BND24A3
		Red	855XC-BND24A4
		Amber	855XC-BND24A5
	115 V AC	Green	855XC-BNA10A3
		Red	855XC-BNA10A4
		Amber	855XC-BNA10A5

Public Address Loudspeakers

855XL – BN 70 A

a b c

a	
Product Type	
Code	**Description**
BN	1/2 in. NPT conduit entrance, black housing

b	
Power Selection - Transformer	
Code	**Description**
70	70V line (tappings: 15 W, 7.5 W, 3 W, 1 W)
100	100V line (tappings: 15 W, 7.5 W, 3 W, 1 W)
8R	8 Ω
16R	16 Ω

c	
Power Handling	
Code	**Description**
A	15 W RMS

Power Handling	Power Selection	Cat. No.
15 W RMS	70V Line (Tappings: 15W 7.5W 3W 1W)	855XL-BN70A
	8 Ω	855XL-BN8RA
	16 Ω	855XL-BN16RA

Device		855XH Horn	855XB Beacon	855XC Horn-Beacon Combination	855XL PA Loudspeaker
Mechanical Ratings					
Shock		30 G Peak			
Vibration		2 G Peak			
Environmental Ratings					
Ingress Ratings		IP66/67 and UL Type 4/4X13, IP 66/67			
Temperature Ranges	Operating	-4...+131 °F (-20...+55 °C)			
	Storage	-4...+167 °F (-20...+75 °C)			
Materials					
Covers		PPS glass-filled plastic			
Bases		PPS glass-filled plastic			
Mounting Bracket		Stainless Steel 304 (A2)			
Gaskets		Viton			
Beacon Lens		Glass			
Beacon Housing		PPS glass-filled plastic			
Performance Ratings					
Sound Output	dB @ 1 meter	110 or 117 dB	N/A	110 dB	N/A
Xenon Lamp Rating		N/A	5 or 10 Joules	5 Joules	N/A
Flashing Frequency		N/A	1 Hz	1 Hz	N/A

Operating Ratings (Voltage and Current Consumption)						
Device	**Input Voltages**	**12V AC/DC**	**24V AC/DC**	**48V DC (Max. I/P Volts)**	**10V AC 50/60 Hz**	**230V AC 50/60 Hz**
855XH Horn 110 dB @ 1 m	DC Units: 10...30V or 48V	–	284 mA (30V)	146 mA (58V)	–	–
	AC Units: 120V or 230V 50/60Hz	–	–	–	104 mA (132V)	54 mA (253V)
855XH Horn 117 dB @ 1 m	DC Units: 10...30V or 48V	–	280 mA (30V)	215 mA (58V)	–	–
	AC Units: 120V or 230V 50/60Hz	–	–	–	142 mA (132V)	76 mA (253V)
855XB Beacon 5 Joules	DC Units: 12 or 24V or 48V	520 mA (15V)	275 mA (30V)	145 mA (58V)	–	–
	AC Units: 120V or 230V 50/60Hz	–	–	–	80 mA (132V)	30 mA (253V)
855XB Beacon 10 Joules	DC Units: 24V or 48V	–	560 mA (30V)	260 mA (58V)	–	–
	AC Units: 120V or 230V 50/60Hz	–	–	–	185 mA (132V)	107 mA (253V)
855XC Combined Horn (110 dB @ 1 m) and Strobe Beacon (5 Joules)	**Horn Section** DC Units: 24V or 48V	–	284 mA (30V)	146 mA (58V)	–	–
	Horn Section AC Units: 120V or 230V 50/60Hz	–	–	–	104 mA (132V)	54 mA (253V)
	Beacon Section DC Units: 24V or 48V	–	275 mA (30V)	145 mA (58V)	–	–
	Beacon Section AC Units: 120V or 230V 50/60Hz	–	–	–	80 mA (132V)	30 mA (253V)

Operating Ratings				
Device	**Impedance**	**Input**	**Wattage**	**Max. I/P Volts**
855XL PA Loudspeaker ⋆	8 Ω	8 Ω	15 W	10.95V
	16 Ω	16 Ω	15 W	15.49V
	100V Line	100V Line	15 W	100V
	70V Line	70V Line	15 W	70V

⋆ **Power Amplifier Selection:** It is important that loudspeakers are connected to power amplifiers that have outputs compatible to the type of loudspeaker being used. Loudspeakers with a 70V or 100V line-matching transformer fitted must be connected to a power amplifier with a 70V or 100V line output. Low-impedance 8 Ω or 16 Ω loudspeakers must be connected to amplifiers with a suitable low-impedance output.

Temperature Ratings			
Device	**Hazardous Location**	**Code (Max. Operating Temperature) @ 55 °C Ambient**	**Code (Max. Operating Temperature) @ 40 °C Ambient**
855XB- 5 Joule Beacon	Class I, Division 2, Groups A, B, C, D	T2D (215 °C)	T3 (200 °C)
	Class II, Division 2, Groups F and G	T5 (100 °C)	T6 (85 °C)
	Class III, Divisions 1 and 2	T5 (100 °C)	T6 (85 °C)
855XB- 10 Joule Beacon	Class I, Division 2, Groups A, B, C, D	T2A (280 °C)	–
	Class II, Division 2, Groups F and G	T4A (120 °C)	T5 (100 °C)
	Class III, Divisions 1 and 2	T4A (120 °C)	T5 (100 °C)
855XH- 110 dB Sounder	Class I, Division 2, Groups A, B, C, D	T3C (160 °C)	T4 (135 °C)
	Class II, Division 2, Groups F and G	T6 (85 °C)	–
	Class III, Divisions 1 and 2	T6 (85 °C)	–
855XH- 117 dB Sounder	Class I, Division 2, Groups A, B, C, D	T3C (160 °C)	T4 (135 °C)
	Class II, Division 2, Groups F and G	T6 (85 °C)	–
	Class III, Divisions 1 and 2	T6 (85 °C)	–
855XC- Sound/Strobe Combination	Class I, Division 2, Groups A, B, C, D	T2D (215 °C)	T3 (200 °C)
	Class II, Division 2, Groups F and G	T5 (100 °C)	T6 (85 °C)
	Class III, Divisions 1 and 2	T5 (100 °C)	T6 (85 °C)
855XL- Loudspeaker	Class I, Division 2, Groups A, B, C, D	T4 (135 °C)	T4A (120 °C)
	Class II, Division 2, Groups F and G	T6 (85 °C)	–
	Class III, Divisions 1 and 2	T6 (85 °C)	–

Tone Selection Table for 855XH and 855XC units									
Stage 1	Frequency Description	Switch						Stage 2	Stage 3
		1	2	3	4	5	6		
1	340 Hz, Continuous	0	0	0	0	0	0	Tone 2	Tone 5
2	800/1000 Hz @ 0.25 s, Alternating	1	0	0	0	0	0	Tone 17	Tone 5
3	500/1200 Hz @ 0.3 Hz s, Slow Whoop	0	1	0	0	0	0	Tone 2	Tone 5
4	800/1000 Hz @ 1 Hz, Sweeping	1	1	0	0	0	0	Tone 6	Tone 5
5	2400 Hz, Continuous	0	0	1	0	0	0	Tone 3	Tone 20
6	2400/2900 Hz @ 7 Hz, Sweeping	1	0	1	0	0	0	Tone 7	Tone 5
7	2400/2900 Hz @ 1 Hz, Sweeping	0	1	1	0	0	0	Tone 10	Tone 5
8	500/1200/500 Hz @ 0.3 Hz, Sweeping	1	1	1	0	0	0	Tone 2	Tone 5
9	1200/500 Hz @ 1 Hz, - DIN *PFEER P.T.A.P.*	0	0	0	1	0	0	Tone 15	Tone 2
10	2400/2900 Hz @ 2 Hz, Alternating	1	0	0	1	0	0	Tone 7	Tone 5
11	1000 Hz @ 1 Hz, Intermittent	0	1	0	1	0	0	Tone 2	Tone 5
12	800/1000 Hz @ 0.875 Hz, Alternating	1	1	0	1	0	0	Tone 4	Tone 5
13	2400 Hz @ 1 Hz, Intermittent	0	0	1	1	0	0	Tone 15	Tone 5
14	800 Hz, 0.25 s ON, 1 s OFF, Intermittent	1	0	1	1	0	0	Tone 4	Tone 5
15	800 Hz, Continuous	0	1	1	1	0	0	Tone 18	Tone 5
16	660 Hz, 150 ms ON, 150 ms OFF, Intermittent	1	1	1	1	0	0	Tone 2	Tone 27
17	544 Hz (100 ms)/440 Hz (400 ms), - NF S 32-001	0	0	0	0	1	0	Tone 2	Tone 5
18	660 Hz, 1.8 s ON, 1.8 s OFF, Intermittent	1	0	0	0	1	0	Tone 2	Tone 5
19	1.4 kHz...1.6 kHz 1s, 1.6 kHz...1.4 kHz 0.5 s, - NFC48-265	0	1	0	0	1	0	Tone 2	Tone 5
20	660 Hz, Continuous	1	1	0	0	1	0	Tone 2	Tone 5
21	554 Hz/440 Hz @ 1 Hz, Alternating	0	0	1	0	1	0	Tone 2	Tone 5
22	544 Hz @ 0.875 s, Intermittent	1	0	1	0	1	0	Tone 2	Tone 5
23	800 Hz @ 2 Hz, Intermittent	0	1	1	0	1	0	Tone 6	Tone 5
24	800/1000 Hz @ 50 Hz, Sweeping	1	1	1	0	1	0	Tone 29	Tone 5
25	2400/2900 Hz @ 50 Hz, Sweeping	0	0	0	1	1	0	Tone 29	Tone 5
26	Bell	1	0	0	1	1	0	Tone 2	Tone 15
27	554 Hz, Continuous	0	1	0	1	1	0	Tone 26	Tone 5
28	440 Hz, Continuous	1	1	0	1	1	0	Tone 2	Tone 5
29	800/1000 Hz @ 7 Hz, Sweeping	0	0	1	1	1	0	Tone 7	Tone 5
30	300 Hz, Continuous	1	0	1	1	1	0	Tone 2	Tone 5
31	660/1200 Hz @ 1 Hz, Sweeping	0	1	1	1	1	0	Tone 26	Tone 5
32	Two-tone chime	1	1	1	1	1	0	Tone 26	Tone 15
33	745 Hz @ 1 Hz, Intermittent	0	0	0	0	0	1	Tone 2	Tone 5
34	1000 & 2000 Hz @ 0.5 s, Aletrnating - Signapore	1	0	0	0	0	1	Tone 38	Tone 45
35	420 Hz @ 0.625 s, Australian Alert	0	1	0	0	0	1	Tone 36	Tone 5
36	500-1200 Hz 3.75 s/0.25 s, Australian Evac.	1	1	0	0	0	1	Tone 35	Tone 5
37	1000 Hz, Continuous, - *PFEER Toxic Gas*	0	0	1	0	0	1	Tone 9	Tone 45
38	2000 Hz, Continuous	1	0	1	0	0	1	Tone 34	Tone 45
39	800 Hz 0.25 s ON, 1 sec OFF, Intermittent	0	1	1	0	0	1	Tone 23	Tone 17
40	544 Hz (100 ms)/440 Hz (400 ms), - NF S 32-001	1	1	1	0	0	1	Tone 31	Tone 27
41	Motor Siren - slow rise to 1200 Hz	0	0	0	1	0	1	Tone 2	Tone 5
42	Motor Siren - slow rise to 800 Hz	1	0	0	1	0	1	Tone 2	Tone 5
43	1200 Hz, Continuous	0	1	0	1	0	1	Tone 2	Tone 5
44	Motor Siren - slow rise to 2400 Hz	1	1	0	1	0	1	Tone 2	Tone 5
45	1 KHz 1 s ON, 1 s OFF, Intermittent, - *PFEER Gen. Alarm*	0	0	1	1	0	1	Tone 38	Tone 34