

Xenon Strobe Beacons



855XB — BN A10 B 4
 a b c d

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

b	
Voltage	
Code	Description
D12	12V DC ⁽¹⁾
D24	24V DC
D48	48V DC
A10	115...120V AC
A20	220...230V AC

c	
Beacon Type	
Code	Description
A	Xenon strobe - 5 J, 1 Hz
B	Xenon strobe - 10 J, 1 Hz

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

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

Combined Horn Sounder and Strobe Beacons



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 (3.3 ft), 45 tones, 3 stages

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

Public Address Loudspeakers

855XL – $\frac{\text{BN}}{\text{a}}$ $\frac{70}{\text{b}}$ $\frac{\text{A}}{\text{c}}$

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

b	
Voltage	
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	
Beacon Type	
Code	Description
A	15 W RMS

Specifications

Table 138 - Mechanical

Attribute	855XH Horn	855XB Beacon	855XC Horn/Beacon Combination	855XL Public Address Loudspeaker
Shock			30 G Peak	
Vibration			2 G Peak	

Table 139 - Environmental

Attribute	855XH Horn	855XB Beacon	855XC Horn/Beacon Combination	855XL Public Address Loudspeaker
Ingress Ratings			UL Type 4/4X13, IP 66/67	
Temperature Ranges	Operating		-20...+55 °C (-4...+131 °F)	
	Storage		-20...+75 °C (-4...+167 °F)	

Table 140 - Materials

Part	855XH Horn	855XB Beacon	855XC Horn/Beacon Combination	855XL Public Address Loudspeaker
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	

Table 141 - Performance Ratings

Attribute		855XH Horn	855XB Beacon	855XC Horn/Beacon Combination	855XL Public Address Loudspeaker
Sound Output	dB @ 1 meter	110 or 117	—	110	—
Xenon Lamp Rating	[J]	—	5 or 10	5	—
Flashing Frequency	[Hz]	—	1	1	—

Table 142 - Voltage and Current Consumption

Device	Input Voltage	12V AC/DC	24V AC/DC	48V DC (I/P Volts, Max)	10V AC, 50/60 Hz	230V AC, 50/60 Hz
855XH Horn 110 dB @ 1 m (3.3 ft)	DC Units: 10...30V or 48V	—	284 mA (30V)	146 mA (58V)	—	—
	AC Units: 120V or 230V, 50/60 Hz	—	—	—	104 mA (132V)	54 mA (253V)
855XH Horn 117 dB @ 1 m (3.3 ft)	DC Units: 10...30V or 48V	—	280 mA (30V)	215 mA (58V)	—	—
	AC Units: 120V or 230V, 50/60 Hz	—	—	—	142 mA (132V)	76 mA (253V)
855XB Beacon, 5 J	DC Units: 12, 24, or 48V	520 mA (15V)	275 mA (30V)	145 mA (58V)	—	—
	AC Units: 120V or 230V, 50/60 Hz	—	—	—	80 mA (132V)	30 mA (253V)
855XB Beacon, 10 J	DC Units: 24V or 48V	—	560 mA (30V)	260 mA (58V)	—	—
	AC Units: 120V or 230V, 50/60 Hz	—	—	—	185 mA (132V)	107 mA (253V)
855XC Combined Horn (110 dB @ 1 m (3.3 ft)) and Strobe Beacon (5 J)	Horn Section DC Units: 24V or 48V	—	284 mA (30V)	146 mA (58V)	—	—
	Horn Section AC Units: 120V or 230V, 50/60 Hz	—	—	—	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, 50/60 Hz	—	—	—	80 mA (132V)	30 mA (253V)

Table 143 - Operating Ratings

Device	Impedance	Input	Wattage	I/P Volts, Max
855XL PA Loudspeaker ⁽¹⁾	8 Ω	8 Ω	15 W	10.095V
	16 Ω	16 Ω	15 W	15.49V
	100V Line	100V Line	15 W	100V
	70V Line	70V Line	15 W	70V

(1) 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 that is 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.

Table 144 - Temperature Ratings

Device	Hazardous Location	Code (Operating Temperature, Max) @ 55 °C (131 °F) Ambient	Code (Operating Temperature, Max) @ 40 °C (104 °F) Ambient
855XB- 5 J Beacon	Class I, Division 2, Groups A, B, C, D	T2D (215 °C [419 °F])	T3 (200 °C [392 °F])
	Class II, Division 2, Groups F and G	T5 (100 °C [212 °F])	T6 (85 °C [185 °F])
	Class III, Divisions 1 and 2	T5 (100 °C [212 °F])	T6 (85 °C [185 °F])
855XB- 10 J Beacon	Class I, Division 2, Groups A, B, C, D	T2A (280 °C [536 °F])	—
	Class II, Division 2, Groups F and G	T4A (120 °C [248 °F])	T5 (100 °C [212 °F])
	Class III, Divisions 1 and 2	T4A (120 °C [248 °F])	T5 (100 °C [212 °F])
855XH- 110 dB Sounder	Class I, Division 2, Groups A, B, C, D	T3C (160 °C [320 °F])	T4 (135 °C [275 °F])
	Class II, Division 2, Groups F and G	T6 (85 °C [185 °F])	—
	Class III, Divisions 1 and 2	T6 (85 °C [185 °F])	—
855XH- 117 dB Sounder	Class I, Division 2, Groups A, B, C, D	T3C (160 °C [320 °F])	T4 (135 °C [275 °F])
	Class II, Division 2, Groups F and G	T6 (85 °C [185 °F])	—
	Class III, Divisions 1 and 2	T6 (85 °C [185 °F])	—
855XC- Sound/Strobe Combination	Class I, Division 2, Groups A, B, C, D	T2D (215 °C [419 °F])	T3 (200 °C [392 °F])
	Class II, Division 2, Groups F and G	T5 (100 °C [212 °F])	T6 (85 °C [185 °F])
	Class III, Divisions 1 and 2	T5 (100 °C [212 °F])	T6 (85 °C [185 °F])
855XL- Loudspeaker	Class I, Division 2, Groups A, B, C, D	T4 (135 °C [275 °F])	T4A (120 °C [248 °F])
	Class II, Division 2, Groups F and G	T6 (85 °C [185 °F])	—
	Class III, Divisions 1 and 2	T6 (85 °C [185 °F])	—

Table 145 - Standards and Certifications

Attribute	Bulletin 855X — Hazardous Location Horns, Beacons, and Loudspeakers
Standards Compliance	<ul style="list-style-type: none"> • UL 508 • UL 1604 • CSA C22.2 No. 14 • CSA C22.2 No. 213 • EN/IEC 60947-1 • EN/IEC 60947-5-1
Certifications	<ul style="list-style-type: none"> • CE Marked • c-UL-us Listed (File No. E305538 for Beacons and File No. E305533 for Horns and Combination units) for Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F & G, and Class III, Division 1 & 2

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 1 s, 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 Hz & 2000 Hz @ 0.5 s, Alternating - Singapore	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

Approximate Dimensions

Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Figure 17 - Horns

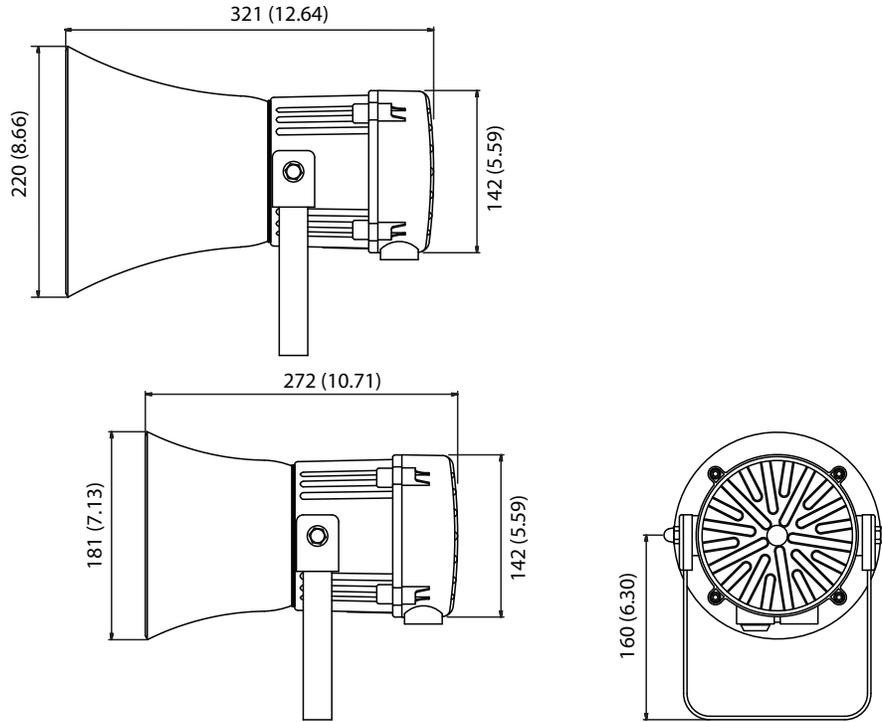
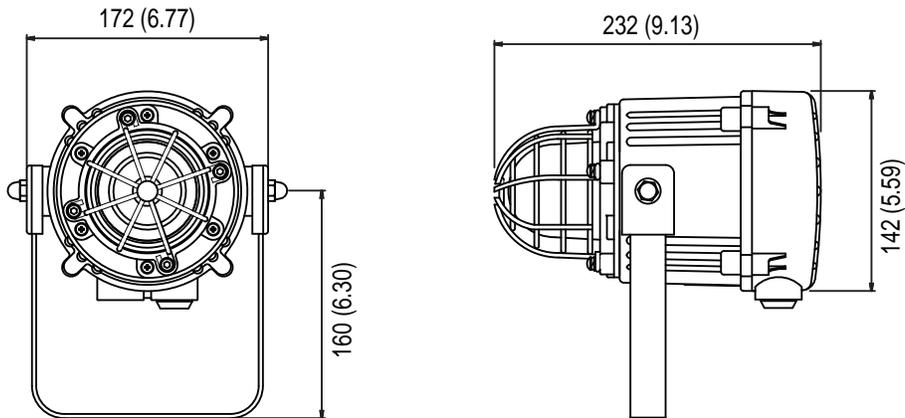


Figure 18 - Beacons



Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Figure 19 - Horn and Beacon Combinations

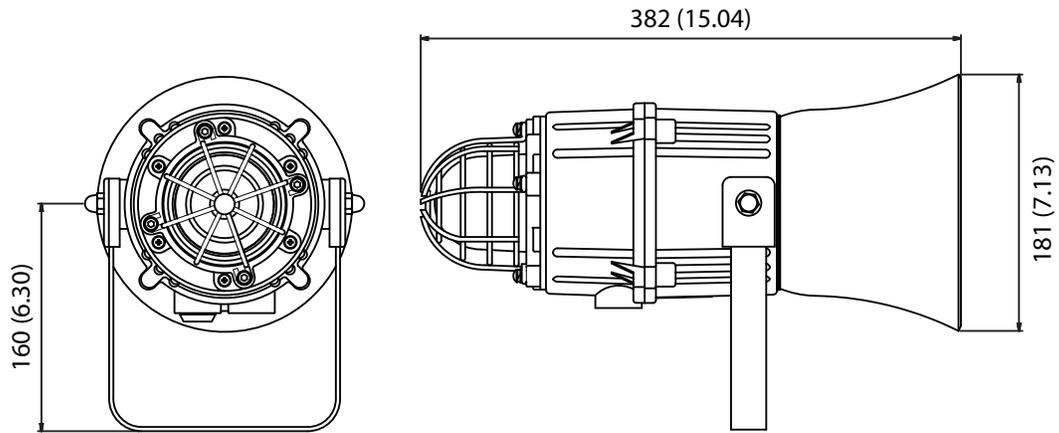


Figure 20 - Public Address Loudspeakers

