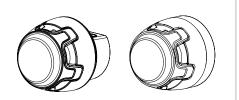
INSTALLATION INSTRUCTIONS FOR CONVENTIONAL WALL & CEILING MOUNT SOUNDER BEACON - W AND C CLASS

MODELS

CWSS-xx-S5 = Sounder Beacon, Shallow Base, W Class, C Class CWSS-xx-S6 = Sounder Beacon, Shallow Base, W Class, First Fix, C Class CWSS-xx-W5 = Sounder Beacon, Deep Base, W Class, C Class CWSS-xx-W6 = Sounder Beacon, Deep Base, W Class, First Fix, C Class

xx Denotes Body & Lens Colour



TECHNICAL INFORMATION VOLTAGE RANGE (OPERATING) C/W Class VOLTAGE RANGE (EN54-23) C/W Class approved at 12-29V AVERAGE PEAK CURRENT - C/W Class 73.5mA @24V AVERAGE PEAK POWER - C/W Class 1.75W @24V VOLTAGE RANGE (EN54-3) 9-14V 18-29V No. OF STAGES 2 BEACON FLASH RATE 0.5Hz MONITORING Reverse polarity RELATIVE HUMIDITY Up to 93% (± 3%) - non condensing 0.5mm² - 2.5mm² (max) WIRE GAUGE FOR TERMINAL -25 to +70°C OPERATING TEMPERATURE

Peak and average current consumption can be found in the full tone table overleaf.

VOLUME SETTINGS

Volume setting is adjusted by switch 6 on the 6-way DIP switch on the bottom of the product. (See switch diagram overleaf).

TONE SETTINGS

The tone setting is selected by switches 1 to 5 on the 6-way DIP switch. The switch diagram and tone table are overleaf. The second stage tone is related to the first stage tone selection made via the DIP switch. The second stage is controlled by the fire panel and becomes active through the wiring configuration.

BASES/IP RATING

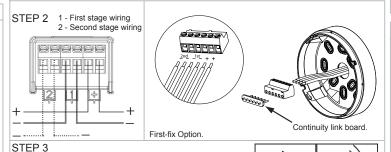
Shallow Base (IP21C)

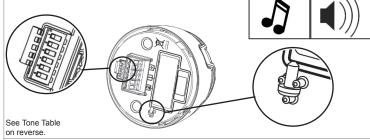


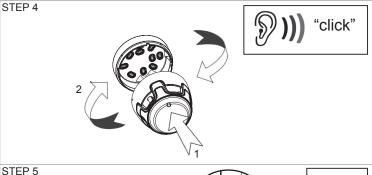
Deep Base (IP65)

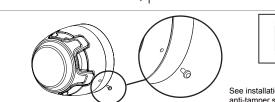
If the Deep Base IP65 option is used, the o-ring seal must be fitted to the base as shown. If required, the deep base gasket accessory can be installed between the base and the mounting surface.

INSTALLATION STEP 1











See installation step 3 for anti-tamper screw location.

DIMENSIONS

Shallow and Deep Base 100mm **98mm**

INSTALLATION TIPS

These products are universal devices suitable for wall & ceiling mount installations.

These products are not designed for use with pulsed panel outputs. If more than 1 mode is required use the second stage tone.

Drill out the required mounting and wiring holes in the rear of the base. Do not attempt to "knock-out" the holes with a screwdriver.

Factory setting is Tone 1 at medium volume.

Installation tools required: Pliers, Screwdriver, Drill.

Accessories: -

SC076 = 5x Earth Strap/ SC077 = 5x Terminal Block/ SC078 = 5x Installer Link/ P310 = 5x Deep Base O-Ring/ P311 = 5x Deep Base Gasket/ CSR = 5x Shallow Base-Red/ CSW = 5x Shallow Base-White/ CWW=5x IP65 Deep Base-White/ CWR = 5x IP65 Deep Base-Red.

WARNING: Use extreme caution when adjusting the switches on the 6-way DIP switch. The switch contacts and exposed PCB can be affected by electro-static discharge.

WARNING: Care must be taken when installing first-fix model types with the KAC continuity link board. DO NOT touch the exposed link board contacts when load is applied as this may result in an electrical shock.

The sounder minimum voltage is limited to 12V to maintain beacon performance.

WALL & CEILING MOUNT SOUNDER BEACON MODELS:

CWSS-xx-S5 CWSS-xx-S6 CWSS-xx-W5 CWSS-xx-W6



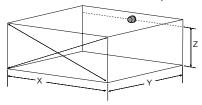
TONE TABLE

SW6	Volume Setting	
ON	HIGH	
OFF	MEDIUM	

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		Ua	U	\Box

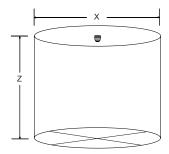
	Tone Typical consumption (mA) 2nd										2nd						
	Nos.	Pattern		Nominal Freq		High		Med	12V	High	12V	Med			Market	Standard	Stage
Dip Switch					dB	mA	dB	mA	dB	mA	dB	mA	Switching Freq	Description			Tone
0,0,0,0,0	1	Alternating		554/440	101.7	61.2	95.9	41.9	95.8	61.3	90	52.2	2Hz (100ms/400ms)	French Fire Sound AFNOR	France	NFS 32-001	7
1,0,0,0,0	2	Alternating		800/970	102.1	57.9	91.5	38.9	95.8	59.8	84.6	51.3	1Hz		UK	BS5839 Pt1	8
0,1,0,0,0	3	Alternating		800/970	101.9	57.6	91.4	39.8	95.6	59.9	84.3	51.4	2Hz	Alternating tone telecoms	UK	BS5839 Pt1, FP1063.1	8
1,1,0,0,0	4	Alternating		2400/2900	107.2	72.9	99.2	49.2	100.3	66.4	91.9	55.5	3Hz	Alternating High Frequency			10
0,0,1,0,0	5	Alternating		2500/3100	107.7	72.9	99.5	49.2	100.7	66.1	92.2	55.9	2Hz	Security Alarm			10
1,0,1,0,0	6	Alternating		988/645	100.6	54.5	97.3	42	94.5	57.6	90.8	52.6	2Hz				8
0,1,1,0,0	7	Continuous		660 970	101 98.6	52 59.1	97.2 88.7	45.7	94.8 92.4	57.2	87.5	53.6		All clear	Sweden	BS 5839 Pt 1	1
1,1,1,0,0	8	Continuous Continuous		1200	104.2	63.9	103.1	40.3 56	92.4	59.9 61.9	81.7 96.6	51.7 59				BS 5839 Pt 1	2
1,0,0,1,0	10	Continuous		2850	99.1	73.5	93.2	51.9	92.4	66.2	86	56.1	1	HF Continuous			4
0,1,0,1,0	11	Bell	2	2400	106.8	72.4	98.7	47.7	99.9	66.1	91.4	55.5	Alternate between frequencies 2400Hz, 3100Hz and 988Hz	Simulated bell			16
1,1,0,1,0	12	Intermittent		420	101	50	96.1	38.3	95.2	55.4	89.6	51.1	0.625s on, 0.625 sec off	AS2220 alert tone	NZ, Aus	AS2220	13
0,0,1,1,0	13	Sweep		500-1200	104	65.2	103.1	57.6	97.4	62.7	96.9	59.3	0.25 sec off, 3.75 sec on	AS2220 evacuate tone	NZ, Aus	AS2220	12
1,0,1,1,0	14	Intermittent		660	99.8	45	96.7	39	93.7	53.2	90.2	51.3	3.33Hz 150ms on, 150ms off	Swedish alarm tone	Sweden		7
0,1,1,1,0	15	Intermittent		970	98.2	40.8	88.2	35.6	92	51.7	81.3	49.9	0.8Hz 0.25s on, 1s off	Intermittent Tone	UK	BS 5839 Pt 1	8
1,1,1,1,0	16	Intermittent	mmmm	970	98.8	48.5	88.6	38.2	92.6	54.6	81.7	50.6	0.5Hz 1s on, 1s off	Back up alarm LF & BS5839 Pt 1	UK	BS5839 Pt 1	8
0,0,0,0,1	17	Intermittent		2850	98.9	53.5	92.9	43.9	92.2	57.1	85.4	52.6	1Hz	Back up alarm HF & BS5839 Pt 1 2nd tone	UK	BS5839 Pt 1	10
1,0,0,0,1	18	Intermittent		970	98.5	47.5	88.7	38.2	92.4	54.4	81.7	50.3	1Hz 500ms on, 500ms off	LF BS5839 Pt 1	UK	BS5839 Pt 1	8
0,1,0,0,1	19	Intermittent		950	97.5	44.3	87.6	37.3	91.8	53.4	80.7	50	0.22Hz (0.5s on, 0.5s off) *3, 1.5s off		Australia	ISO8201 Temporal 3	12
1,1,0,0,1	20	Continuous		800	101.9	56.8	91.3	39.5	95.6	59	84.4	50.9				BS 5839 Pt 1	22
0,0,1,0,1	21	Sweep	111_11L	400-1200	102.3	50.2	101.6	43.8	96.2	54.3	95.4	53.2	(0.5s on, 0.5s off)*3, 1.5s off	Temporal 3 Evacuation tone	Australia	ISO8201 Temporal 3	12
1,0,1,0,1	22	Sweep	2	1200 - 500	102.7	69.9	102.1	60.1	97	63.9	96	60.5	0.99Hz 1s on, 0.01s off	Evacuate, DIN tone & PFEER	Germany	DIN, PFEER	20
0,1,1,0,1	23	Sweep	MMW	2400 - 2850	108	71.7	99.8	45.3	100.9	66	92.6	54.5	7Hz	Fast sweep VdS	Germany	VdS	10
1,1,1,0,1	24	Sweep		500 - 1200	104.2	61.7	103.1	56.5	97.7	61.9	96.9	58.5	(0.5s off, 3.5s on)	Slow whoop evacuate Netherlands	Netherlands	NEN 2575	8
0,0,0,1,1	25	Sweep	MMM	800 - 970	101.7	55.6	90.8	38.5	95.3	58.2	83.9	51.1	50Hz	LF Buzz BS5839 Pt 1	UK	BS5839 Pt 1	8
1,0,0,1,1	26	Sweep	лиши	800 - 970	100.9	54	91.1	39.8	94.9	58.2	84.2	51.3	7Hz	Fast sweep LF BS5839 Pt 1	UK	BS5839 Pt 1	8
0,1,0,1,1	27	Sweep	MMM	800 - 970	103.1	56.7	94.7	40.6	97.1	58.6	87.8	51.6	1Hz	Medium sweep LF, BS5839 Pt 1, VdS	UK, Germany	BS5839 Pt 1 VdS	8
1,1,0,1,1	28	Sweep	MMM	2400 – 2850	107	67.4	98.2	44.1	99.7	64	91.2	53.8	50Hz	High frequency buzz			10
0,0,1,1,1	29	Sweep	MMM	500 – 1000	101.7	57.2	90.4	38.5	95.7	59.4	83.5	50.9	7Hz	Fast whoop			8
1,0,1,1,1	30	Sweep		500-1200-500	104.2	66.2	102.9	59.1	97.8	63.2	96.3	60.3	0.166Hz rise 1s, stable 4s, fall 1s	Siren style tone			8
0,1,1,1,1	31	Sweep	MMM	800 – 1000	102.2	55.7	93.6	41.3	95.8	58.8	86.7	52	2Hz				8
1,1,1,1,1	32	Sweep	MMM	2400 - 2850	102.7	55.3	94.2	42	96.2	58.9	87.3	52	1Hz				10

Wall mount device example



Class of approvals	Device	Led colour	Operating voltage	Installation height (Z)	Coverage cube X-Y (Max)	Approvals classification
W	WMSS	WHITE	12V	2.4m	9.10m	W - 2.4 - 9.1
W	WMSS	WHITE	24V (NOM)	2.4m	9.10m	W - 2.4 - 9.1
W	WMSS	WHITE	30V	2.4m	9.10m	W - 2.4 - 9.1
W	WMSS	RED	12V	2.4m	6.2m	W - 2.4 - 6.2
W	WMSS	RED	24V (NOM)	2.4m	6.2m	W - 2.4 - 6.2
W	WMSS	RED	30V	2.4m	6.2m	W - 2.4 - 6.2

Ceiling mount device example



Class of approvals	Device	Led colour	Operating voltage	Installation height (Max)	cylinder diameter (Max)	Approvals classification
С	WMSS	WHITE	12V	3m	10m	C - 3 - 10
С	WMSS	WHITE	12V	6m	10m	C - 6 - 10
С	WMSS	WHITE	12V	9m	10m	C - 9 - 10
С	WMSS	WHITE	30V	3m	10m	C - 3 - 10
С	WMSS	WHITE	30V	6m	10m	C - 6 - 10
С	WMSS	WHITE	30V	9m	10m	C - 9 - 10
С	WMSS	RED	12V	3m	9.3m	C - 3 - 9.3
С	WMSS	RED	12V	6m	8.5m	C - 6 - 8.5
С	WMSS	RED	30V	3m	9.3m	C - 3 - 9.3
С	WMSS	RED	30V	6m	8.5m	C - 6 - 8.5

IMPORTANT NOTES:

Model types using a translucent red or amber lens are not EN54-23 approved. These model types must not be used as visual alarm devices to provide a primary warning notification of fire.

Only products with a clear lens will be EN54:23 approved.

Sounder output data is in accordance with EN54-3; and is available on Document Ref: D 1082.

Deep Base models reduce the dB output by an average of 4dB.

KAC reserves the right to amend the content of this document without prior notice. Pending LPCB approvals.

For CPR Data on all relevant devices please request document D 974

0832

Only product variants supplied with a clear lens are approved to the W and C category EN54-23 standard. The part numbers for these products ends in 5 or 6.

Additional coverage information can be obtained by downloading the following drawings from the KAC website: C Class - 132997_ENSCAPE_EN54-23_W_OUTPUT.pdf W Class - 132998_ENSCAPE_EN54-23_W_OUTPUT.pdf

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