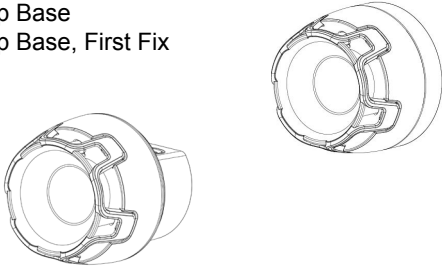


INSTALLATION INSTRUCTIONS FOR CONVENTIONAL WALL & CEILING MOUNT SOUNDER

MODELS

CWSO-xx-S1 = Sounder, Shallow Base
CWSO-xx-S2 = Sounder, Shallow Base, First Fix
CWSO-xx-W1 = Sounder, Deep Base
CWSO-xx-W2 = Sounder, Deep Base, First Fix



xx Denotes Body & Lens Colour

TECHNICAL INFORMATION

VOLTAGE RANGE (OPERATING)	9-29 V
VOLTAGE RANGE (EN54-3)	9-14V 18-29V
AVERAGE PEAK CURRENT	35.0mA @24V
AVERAGE PEAK POWER	1.02W @24V
No. OF STAGES	2
MONITORING	Reverse polarity
RELATIVE HUMIDITY	Up to 93% (± 3%) - non condensing
WIRE GAUGE FOR TERMINAL	0.5mm ² - 2.5mm ² (max)
OPERATING TEMPERATURE	-25 to +70°C

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).

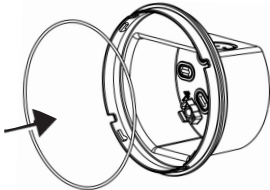
STONE SETTINGS

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)

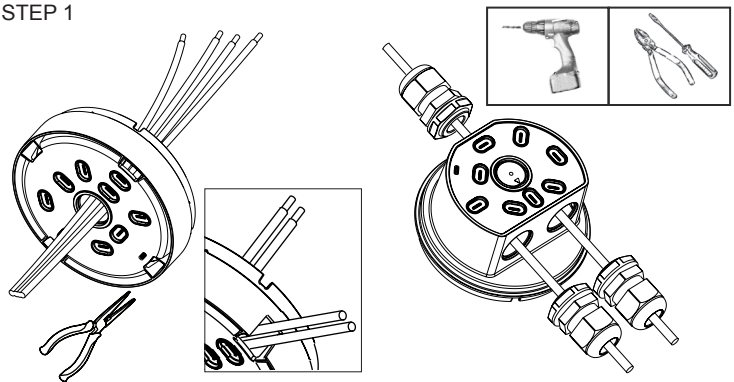
Deep Base (IP65)



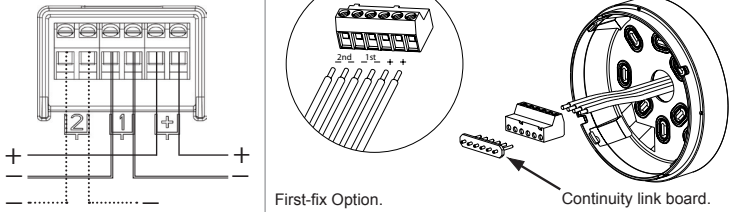
If the Deep Base IP65 option is used, the o-ring seal must be fitted to the base as shown. If required, the deep base gasket accessory can be installed between the base and the mounting surface.

INSTALLATION

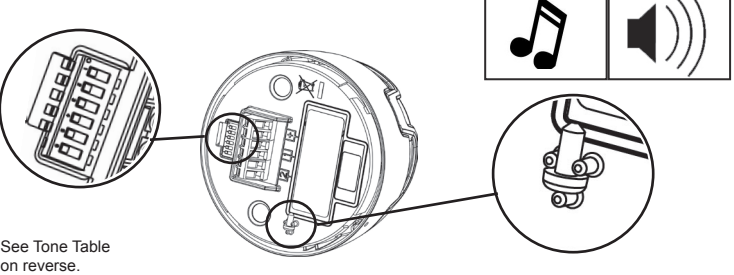
STEP 1



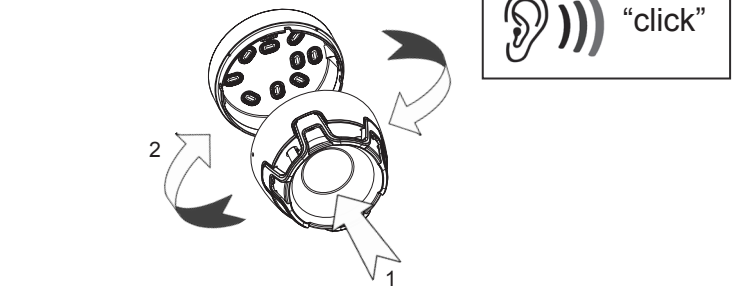
STEP 2 1 - First stage wiring
2 - Second stage wiring



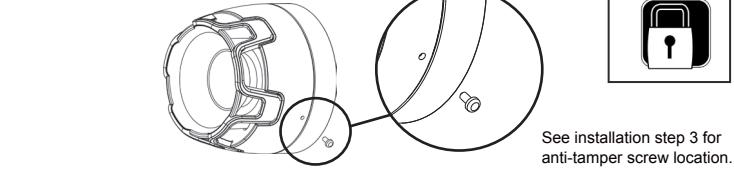
STEP 3



STEP 4

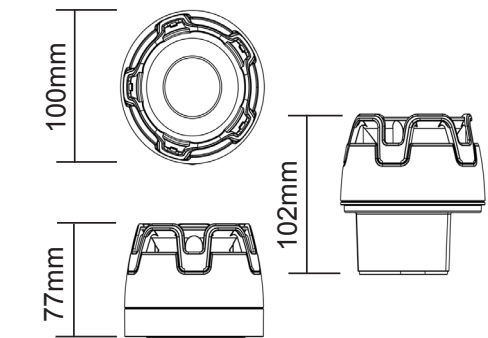


STEP 5



DIMENSIONS

Shallow and Deep Base



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.

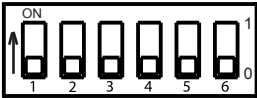
WALL & CEILING MOUNT

SOUNDER MODELS:

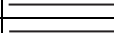
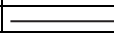
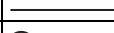
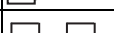
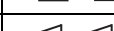
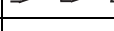
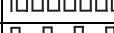
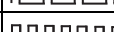
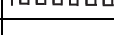
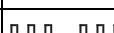
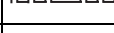
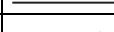
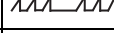
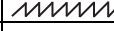
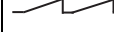
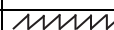
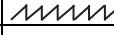
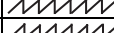
CWSO-xx-S1
CWSO-xx-S2
CWSO-xx-W1
CWSO-xx-W2



TONE TABLE



SW6	Volume Setting
ON	HIGH
OFF	MEDIUM

Dip Switch	Tone Nos.	Pattern		Nominal Freq	Typical consumption (mA)								Switching Freq	Description	Market	Standard	2nd
					24V High		24V Med		12V High		12V Med						Stage
					dB	mA	dB	mA	dB	mA	dB	mA				Tone	
0,0,0,0,0	1	Alternating		554/440	99.7	26.64	96.7	7.67	94.1	11.94	90.4	3.80	2Hz (100ms/400ms)	French Fire Sound AFNOR	France	NFS 32-001	7
1,0,0,0,0	2	Alternating		800/970	102.2	21.54	92.9	5.73	97.0	10.97	87.0	3.25	1Hz		UK	BS5839 Pt1	8
0,1,0,0,0	3	Alternating		800/970	102.5	21.61	93.1	5.75	96.2	10.01	86.2	3.00	2Hz	Alternating tone telecoms	UK	B55839 Pt1, FP1063.1	8
1,1,0,0,0	4	Alternating		2400/2900	107.7	32.50	101.0	13.96	100.9	15.06	94.1	6.74	3Hz	Alternating High Frequency			10
0,0,1,0,0	5	Alternating		2500/3100	107.2	35.18	100.2	15.90	100.4	16.57	93.2	7.54	2Hz	Security Alarm			10
1,0,1,0,0	6	Alternating		988/645	102.7	18.40	99.6	8.38	96.9	8.79	93.4	4.27	2Hz				8
0,1,1,0,0	7	Continuous		660	103.0	17.81	99.8	10.04	97.3	8.47	93.5	5.02		All clear	Sweden		1
1,1,1,0,0	8	Continuous		970	102.8	22.64	93.5	6.11	96.2	10.66	86.7	3.30				BS 5839 Pt 1	2
0,0,0,1,0	9	Continuous		1200	104.5	25.93	103.5	20.62	98.2	12.06	97.0	9.73					2
1,0,0,1,0	10	Continuous		2850	106.6	33.44	101.2	15.67	99.8	15.40	94.3	7.46		HF Continuous			4
0,1,0,1,0	11	Bell		2400	106.7	34.32	99.7	14.44	99.9	16.11	92.7	7.10	Alternate between frequencies 2400Hz, 3100Hz and 988Hz	Simulated bell			16
1,1,0,1,0	12	Intermittent		420	98.9	14.63	95.6	4.72	93.8	6.29	89.4	2.25	0.625s on, 0.625 sec off	AS2220 alert tone	NZ, Aus	AS2220	13
0,0,1,1,0	13	Sweep		500-1200	103.8	30.01	103.1	20.46	98.2	13.84	97.6	10.56	0.25 sec off, 3.75 sec on	AS2220 evacuate tone	NZ, Aus	AS2220	12
1,0,1,1,0	14	Intermittent		660	101.3	9.31	98.4	5.70	95.8	5.05	92.1	3.07	3.33Hz 150ms on, 150ms off	Swedish alarm tone	Sweden		7
0,1,1,1,0	15	Intermittent		970	102.0	5.71	92.6	2.38	95.6	2.94	86.0	1.43	0.8Hz 0.25s on, 1s off	Intermittent Tone	UK	BS 5839 Pt 1	8
1,1,1,1,0	16	Intermittent		970	102.4	9.87	93.4	4.14	96.1	5.51	86.6	2.54	0.5Hz 1s on, 1s off	Back up alarm LF & BS5839 Pt 1	UK	B55839 Pt 1	8
0,0,0,0,1	17	Intermittent		2850	106.7	18.79	101.2	8.58	99.8	6.96	94.4	4.19	1Hz	Back up alarm HF & BS5839 Pt 1 2nd tone	UK	B55839 Pt 1	10
1,0,0,0,1	18	Intermittent		970	102.4	11.88	93.2	3.45	96.2	5.50	86.4	1.94	1Hz 500ms on, 500ms off	LF BS5839 Pt 1	UK	B55839 Pt 1	8
0,1,0,0,1	19	Intermittent		950	110.4	9.04	93.6	3.36	96.2	4.21	86.8	1.79	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	102.6	20.81	92.8	5.70	96.4	9.83	86.0	3.07				BS 5839 Pt 1	22
0,0,1,0,1	21	Sweep		400-1200	101.7	11.97	101.1	9.38	95.6	6.12	95.1	4.26	(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		1200 - 500	102.1	33.39	101.6	25.55	96.2	14.91	95.8	11.58	0.99Hz 1s on, 0.01s off	Evacuate, DIN tone & PFEER	Germany	DIN, PFEER	20
0,1,1,0,1	23	Sweep		2400 - 2850	107.7	31.87	100.5	12.02	101.0	15.08	93.5	5.99	7Hz	Fast sweep VdS	Germany	VdS	10
1,1,1,0,1	24	Sweep		500 - 1200	103.9	27.32	103.2	21.14	98.2	12.61	97.5	9.83	(0.5s off, 3.5s on)	Slow whoop evacuate Netherlands	Netherlands	NEN 2575	8
0,0,0,1,1	25	Sweep		800 - 970	97.8	19.97	88.4	5.33	91.8	9.45	81.7	2.84	50Hz	LF Buzz BS5839 Pt 1	UK	B55839 Pt 1	8
1,0,0,1,1	26	Sweep		800 - 970	99.0	20.22	91.4	6.30	92.9	9.68	84.7	3.38	7Hz	Fast sweep LF BS5839 Pt 1	UK	B55839 Pt 1	8
0,1,0,1,1	27	Sweep		800 - 970	103.0	20.94	95.8	6.57	97.1	10.01	89.0	3.59	1Hz	Medium sweep LF, BS5839 Pt 1, VdS	UK, Germany	B55839 Pt 1 VdS	8
1,1,0,1,1	28	Sweep		2400 – 2850	99.1	31.93	91.4	11.48	92.4	15.01	84.5	5.79	50Hz	High frequency buzz			10
0,0,1,1,1	29	Sweep		500 – 1000	100.4	23.16	90.4	4.92	94.6	10.68	83.7	2.71	7Hz	Fast whoop			8
1,0,1,1,1	30	Sweep		500-1200-500	104.3	27.94	103.5	23.06	98.1	13.60	97.2	10.78	0.166Hz rise 1s, stable 4s, fall 1s	Siren style tone			8
0,1,1,1,1	31	Sweep		800 – 1000	101.8	21.02	94.7	7.25	95.8	10.10	91.0	5.09	2Hz				8
1,1,1,1,1	32	Sweep		2400 - 2850	102.2	21.28	95.3	7.39	96.1	10.24	88.5	4.04	1Hz				10

IMPORTANT NOTES:

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 reserve 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