MCA112-L1 Combined Marine IP67 Sounder & L.E.D High Output Beacon / Status Light

- Maximum ouput : 119dB(A) @ 1metre
  Nominal output : 112dB(A) @ 1m +/-3dB, Tone 2
- 45 alarm tones (UKOOA/PFEER compliant)
- 3 stage alarm tone option.
- Volume control
- Automatic synchronisation on multi-sounder systems
- 125m effective range @ 1kHz
- Beacon : Array of 32 High Output L.E.D's.
- Colours: Amber, Blue, Green and Red.
- Total of 9 operation modes:
  4 rotating configurations
  4 flashing configurations
  Steady mode for indicator / status applications
- 3 stage beacon
  Remotely selectable 2nd and 3rd stage modes
- Voltages : 24vdc; 48vdc; 24vac; 115vac; 230vac
- Borosilicate glass dome with optically enhanced prosmatic lens cover
- Stainless Steel dome guard as standard
- Third party tested to IP67 & IP66
- Enclosure material : UL94V0 & 5VA rated FR ABS
- Colour available : Grey (RAL7038)
- Operating temperature : -25 to +55°C
- Storage temperature : -40 to +70°C
- Relative humidity : 90% at 20°C
- Weight : DC: 3.00Kg AC: 3.50Kg

A heavy duty high output IP67 sealed sounder & beacon, ideal for harsh environments with high ambient noise levels also requiring a visual indicator.

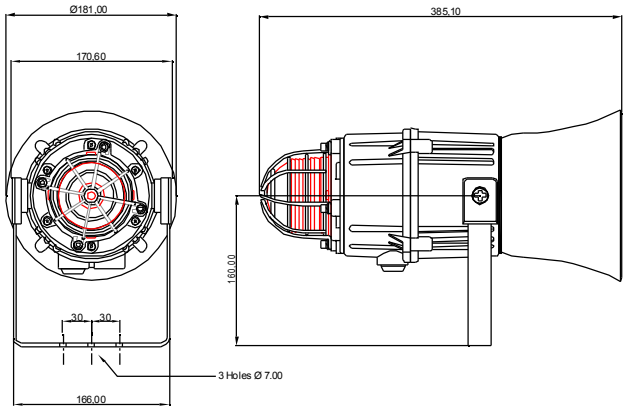
- Large termination area
- 2 x M20 ISO cable gland entries (with 1 blanking plug).
- Ratchet adjustable stainless steel 'U' bracket for 360° positioning.
- All units offer IN & OUT terminals
- Terminals accept 0.5 to 4.0mm² cables.
- Sounder & beacon may use same supply for simultaneous operation or seperate supplies for independent operation.

Input voltages and current consumption for the MCA112-L1 sounder component.

Voltage :	24vdc	48vdc	115vac 50/60Hz	230vac 50/60Hz	24vac 50/60Hz
Voltage range :	10-30vdc	35-60vdc	+/-10%	+/-10%	+/-10%
Current mA :	200mA	120mA	110mA	60mA	500mA

Input voltages and current consumption for the MCA112-L1 L.E.D. beacon component.

Voltage :	24vdc	48vdc	115vac 50/60Hz	230vac 50/60Hz	24vac 50/60Hz
Voltage range :	10-50vdc	10-50vdc	+/-10%	+/-10%	+/-10%
Current mA :	400mA	230mA	140mA	70mA	380mA



All dimensions are in millimetres.

L.E.D. Beacon component configuration modes:

Mode	Stage 1	Stage 2	Stage 3
1	All on	9	8
2	Rotating 3 LED on Fast	7	1
3	Rotating 6 LED on Fast	8	1
4	Rotating 3 LED on Slow	9	1
5	Rotating 6 LED on Slow	6	1
6	Double strike strobe 1Hz	9	1
7	Single strike strobe 2Hz	3	1
8	Double strike strobe 2Hz	3	1
9	Alternate side flash 1:1 2Hz	3	1

Also available :

ML15 15w & **ML25** 25w marine loudspeaker
MA112 & MA121 high output marine sounders
MB005 & **MB010** 5 and 10 Joule marine beacons
MV112 high output marine voice annunciation unit

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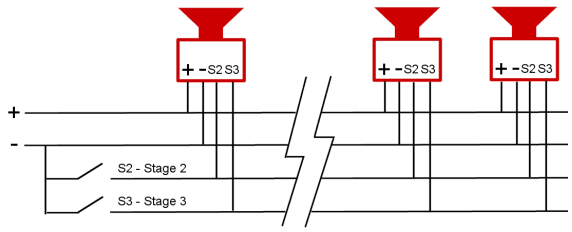
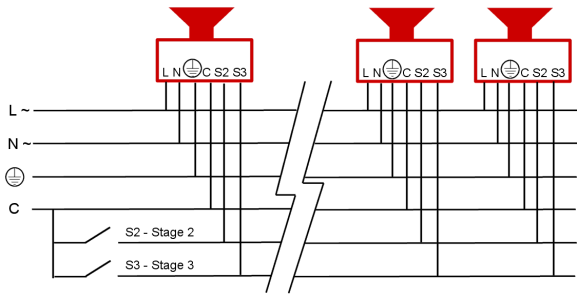
Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	112dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	113dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	113dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	119dB(A) @ 1m	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	116dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	116dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	113dB(A) @ 1m	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	113dB(A) @ 1m	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	119dB(A) @ 1m	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	112dB(A) @ 1m	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	112dB(A) @ 1m	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	119dB(A) @ 1m	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	113dB(A) @ 1m	Tone 4	Tone 5
Tone 15	800Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	109dB(A) @ 1m	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	109dB(A) @ 1m	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	114dB(A) @ 1m	Tone 2	Tone 5
Tone 20	660Hz Continuous	109dB(A) @ 1m	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	109dB(A) @ 1m	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	113dB(A) @ 1m	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	112dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	116dB(A) @ 1m	Tone 29	Tone 5
Tone 26	Bell	108dB(A) @ 1m	Tone 2	Tone 15
Tone 27	554Hz Continuous	109dB(A) @ 1m	Tone 26	Tone 5
Tone 28	440Hz Continuous	106dB(A) @ 1m	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	112dB(A) @ 1m	Tone 7	Tone 5
Tone 30	300Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	112dB(A) @ 1m	Tone 26	Tone 5
Tone 32	Two tone chime.	108dB(A) @ 1m	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	114dB(A) @ 1m	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert	108dB(A) @ 1m	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	113dB(A) @ 1m	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	112dB(A) @ 1m	Tone 9	Tone 45
Tone 38	2000Hz Continuous	116dB(A) @ 1m	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	113dB(A) @ 1m	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	112dB(A) @ 1m	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	113dB(A) @ 1m	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	114dB(A) @ 1m	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	118dB(A) @ 1m	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	112dB(A) @ 1m	Tone 38	Tone 34

Note: SPL readings are at nominal voltage, typically +/-3dB and are for indication purposes only. Where applicable, reduce outputs by 5dB when a 10-30vdc unit is supplied 12vdc.

DC unit wiring configuration.



AC unit wiring configuration.



Ordering code : MCA112-L1 DC 24 G / R

Product	Supply	Voltage	Housing		Lens	
MCA112-L1	DC	24	G	Grey	A	Amber
	AC	48			B	Blue
		115			G	Green
		230			R	Red
		24				

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