

# MCA112-05 Combined Marine IP67 Sounder & Beacon

- Maximum output : 119dB(A) @ 1metre  
Nominal output : 112dB(A) @ 1m +/-3dB, Tone 2
- 45 alarm tones (UKOOA/PFEER compliant)
- 3 stage alarm option
- Volume control
- Automatic synchronisation on multi-sounder systems
- 125m effective range @ 1kHz
- Beacon : 5 Joule @ 1Hz (5 Ws).
- Automatic synchronised flash, or Flip-Flop alternating mode
- 6 lens colours available
- Xenon tube mechanically secured against vibration/shock.
- Voltages : 12vdc; 24vdc; 48vdc; 24vac; 115vac; 230vac
- Other voltages available upon request.
- 24vdc versions may be used on 24vac +/- 10% for single stage applications.
- Positive stage switching DC version available .
- Reverse polarity switching on DC units
- Fully programmable version with 4 stages available.
- 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.

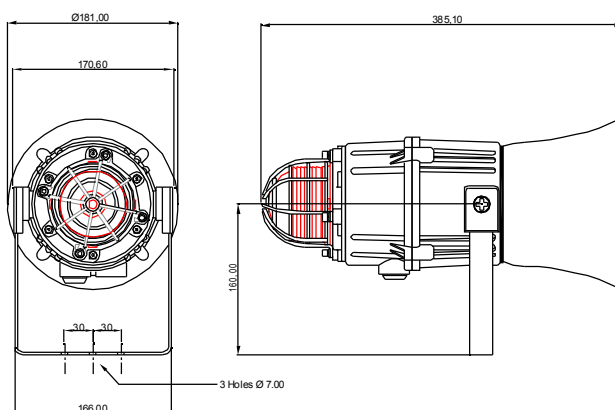
- Large termination area
- 2 x M20 ISO cable gland entries (with 1 blanking plug).
- Ratchet adjustable stainless steel 'U' bracket for 360° positioning.
- All units offer IN & OUT terminals
- Terminals accept 0.5 to 4.0mm<sup>2</sup> cables.
- Sounder & beacon may use same supply for simultaneous operation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

Input voltages and current consumption for the MCA112-05 sounder component.

Voltage :	24vdc	48vdc	115vac	230vac	24vac
			50/60Hz	50/60Hz	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 MCA112-05 beacon component.

Voltage :	12vdc	24vdc	48vdc	115vac	230vac
				50/60Hz	50/60Hz
Voltage range :	10-14v	20-28v	42-54v	+/-10%	+/-10%
Current mA :	550mA	300mA	180mA	140mA	55mA



All dimensions are in millimetres.

Also available :

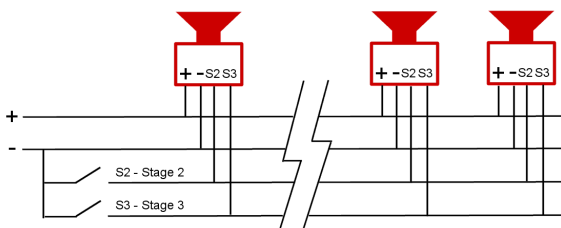
- ML15** 15w & **ML25** 25w marine loudspeaker
- MA112** & **MA121** high output marine sounders
- MB005** & **MB010** 5 and 10 Joule marine beacons
- MV112** high output marine voice annunciation unit



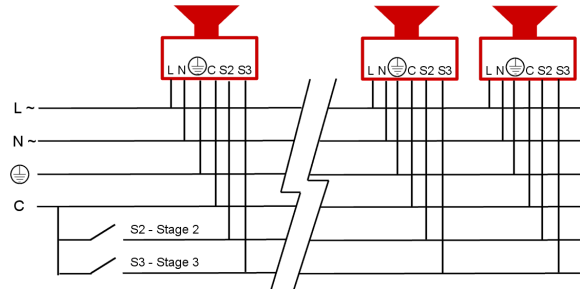
Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	112dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	113dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sw eeping	113dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	119dB(A) @ 1m	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sw eeping	116dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sw eeping	116dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sw eeping	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 Sw eeping	112dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sw eeping	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 Sw eeping	112dB(A) @ 1m	Tone 7	Tone 5
Tone 30	300Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sw eeping	112dB(A) @ 1m	Tone 26	Tone 5
Tone 32	Tw o 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 :

MCA112-05	DC	24	G	/	R
Product	Supply	Voltage	Housing	Lens	
MCA 112-05	DC	12	G Grey	A Amber	
	AC	24		B Blue	
		48		C Clear	
		115		G Green	
		230		R Red	
				Y Yellow	

TSP3607-B

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.

Comsec Protection Systems Ltd., Unit 26, Stadium Business Park, Ballycoolin Road, Dublin 11  
 PHONE: (01) 8853008 - FAX: +353 (01) 8853007  
 EMAIL: info@comsec.ie - WEB: http://www.comsec.ie