

# MCA112-L1 Alarm Sounder & LED Beacon

The MCA112-L1 combines a high output, 119dB(A) alarm sounder with a multi-function L.E.D. beacon. With a robust, fire retardant, IP66 & IP67 housing, the MCA112-L1 is particularly suitable for harsh environments with high ambient noise levels. The sounder & beacon can be operated individually or simultaneously.

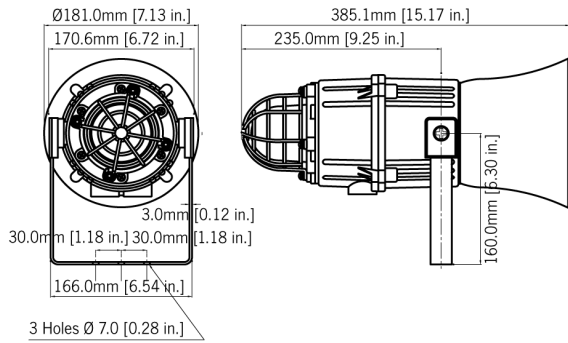
## Features

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Large termination area.
- Stainless steel fixings.
- Ratchet adjustable stainless steel 'U' bracket for 360° positioning.
- Duplicate cable terminations. (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- 'Programmable' version available:
  - 45 alarm tones
  - 4 remotely selectable stages
  - Any tone can be assigned to any stage
  - User configurable continuous frequency tone

## Approvals

- GOST-R approved: POCC GB-JB05-H00144.





## Specification

### Sounder:

Maximum output:	119dB(A) @ 1 metre [110dB(A) @ 10ft/3m]
Nominal output:	112dB(A) @ 1m +/- 3dB - Tone 2 [103dB(A) @ 10ft/3m]
No. of tones:	45 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 112dB(A); Min. 100dB(A) - Tone 2
Effective range:	125m/410ft @ 1KHz
Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc) [DC units can use 24V ac for single stage applications.]
Voltages AC:	24V ac; 115V ac; 230V ac
Stage switching:	Negative or positive Reverse polarity stage switching on DC units.

### L.E.D. Beacon:

Light source:	Array of 32 high output L.E.D.s
Peak/Effective Intensity cd:	11 cd* - measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear (white L.E.D.s) Green, Red & Yellow
Voltages DC:	10-50V dc
Voltages AC:	24V ac; 115V ac; 230V ac

### General:

Ingress protection:	IP66 & IP67 (Third party tested)
Housing material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Grey (RAL7038)
Cable entries:	2 x M20 supplied with 1 blanking plug
Lens material:	Borosilicate glass dome with PC prismatic lens cover.
Guard:	Stainless Steel dome guard as standard
Terminals:	0.5 to 4.0mm <sup>2</sup> cables.
Operating temp:	-25 to +55°C [-13° to +131°F]
Storage temp:	-40 to +70°C [-40° to +158°F]
Relative humidity:	90% at 20°C [68°F]
Weight:	DC: 3.00kg/6.6lbs AC:3.50kg/7.7lbs

\*Candela measurements representative of performance with red lens at optimum voltage.

\*SPL data +/-3dB(A). Measured at optimum voltage.

## Part Codes

Version:	Part code:
12V dc	MCA112L1DC12G-xx
24V dc	MCA112L1DC24G-xx
48V dc	MCA112L1DC48G-xx
24V ac	MCA112L1AC24G-xx
115V ac	MCA112L1AC115G-xx
230V ac	MCA112L1AC230G-xx

[xx] = L.E.D. / Lens AM: Amber, BL: Blue, colour: CL: Clear, GN: Green, RD: Red, YW: Yellow

Suffix part number with 'P' for programmable, 4 stage, 45 tone version.

## Alarm Sounder

Version:		Voltage:	Current:
24V dc	□	10-30V dc	200mA*
48V dc	□	35-60V dc	120mA*
24V ac	50/60Hz	+/-10%	500mA
115V ac	50/60Hz	+/-10%	100mA
230V ac	50/60Hz	+/-10%	60mA

\* current at nominal voltage on Tone 2

## L.E.D. Beacon

Version:		Voltage:	Current:
12V dc		10-50V dc	760mA
24V dc		10-50V dc	400mA
48V dc		10-50V dc	210mA
24V ac	50/60Hz	+/-10%	380mA
115V ac	50/60Hz	+/-10%	135mA
230V ac	50/60Hz	+/-10%	65mA

## Beacon modes

Mode:	Stage 1: [Select on board]	Stage 2: [Remote select]	Stage 3: [Remote select]
1	All L.E.D's on	Mode: 9	Mode: 6
2	Rotating: Slow1	Mode: 9	Mode: 1
3	Single Flash: 2Hz	Mode: 7	Mode: 1
4	Rotating: Fast 1	Mode: 3	Mode: 1
5	Rotating: Slow 2	Mode: 6	Mode: 1
6	Double Flash: 1Hz	Mode: 7	Mode: 1

### Tone table

<b>S 1</b>	<b>Description</b>	<b>S 2</b>	<b>S 3</b>	<b>S 1</b>	<b>Description</b>	<b>S 2</b>	<b>S 3</b>
T 1	340 Hz Continuous	T 2	T 5	T 33	745Hz @ 1Hz Intermittent	T 2	T 5
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5	T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	T 38	T 45
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5	T 35	420Hz @ 0.625 sec Australian Alert	T 36	T 5
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5	T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	T 35	T 5
T 5	2400Hz Continuous	T 3	T 20	T 37	1000Hz Continuous - PFEER Toxic Gas	T 9	T 45
T 6	2400/2900Hz @ 7Hz Sweeping	T 7	T 5	T 38	2000Hz Continuous	T 34	T 45
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5	T 39	800Hz 0.25sec on, 1 sec off Intermittent	T 23	T 17
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5	T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 31	T 27
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 15	T 2	T 41	Motor Siren - slow rise to 1200 Hz	T 2	T 5
T 10	2400/2900Hz @ 2Hz Alternating	T 7	T 5	T 42	Motor Siren - slow rise to 800 Hz	T 2	T 5
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5	T 43	1200 Hz Continuous	T 2	T 5
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5	T 44	Motor Siren - slow rise to 2400 Hz	T 2	T 5
T 13	2400Hz @ 1Hz Intermittent	T 15	T 5	T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...	T 38	T 34
T 14	800Hz 0.25sec on, 1 sec off Intermittent	T 4	T 5				
T 15	800Hz Continuous	T 2	T 5				
T 16	660Hz 150mS on, 150mS off Intermittent	T 18	T 5				
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 2	T 27				
T 18	660Hz 1.8sec on, 1.8sec off Intermittent	T 2	T 5				
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48265	T 2	T 5				
T 20	660Hz Continuous	T 2	T 5				
T 21	554Hz/440Hz @ 1Hz Alternating	T 2	T 5				
T 22	544Hz @ 0.875 sec. Intermittent	T 2	T 5				
T 23	800Hz @ 2 Hz Intermittent	T 6	T 5				
T 24	800/1000Hz @ 50Hz Sweeping	T 29	T 5				
T 25	2400/2900Hz @ 50Hz Sweeping	T 29	T 5				
T 26	Bell	T 2	T 15				
T 27	554Hz Continuous	T 26	T 5				
T 28	440Hz Continuous	T 2	T 5				
T 29	800/1000Hz @ 7Hz Sweeping	T 7	T 5				
T 30	300Hz Continuous	T 2	T 5				
T 31	660/1200Hz @ 1Hz Sweeping	T 26	T 5				
T 32	Two T chime.	T 26	T 15				

**AUTHORIZED DISTRIBUTOR:**  
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**832-615-3588**

### E2S Warning Signals

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.

15 Dec 2014