Sockum Sonics

Electronic Bell and Gong BG 300

Operating and installation manual





Power amplifier BG 300 Ref. no. 24801484

General Information

According to the International Regulations for Preventing Collisions at Sea 1972, Rule 33, vessels of 12m in length or more shall be equipped with a bell, and vessels of 100m or more shall, in addition, be provided with a gong with the tone and sound which cannot be confused with that of the bell. The device shall produce a sound pressure level of not less than 110 dB at 1 metre. The electronic Bell & Gong system is especially developed to meet these regulations.

The Bell and Gong sound emitters are identical and electrodynamic. They are, also, small and compact compared with many other loudspeaker designs. The design is advantageous from different aspects — not only the aesthetic.

By means of modern electronics, a power amplifier BG 300 supplies the sound emitters with the signal characters stipulated by regulation for "ship aground" and "ship at anchor". To emit the prescribed signal characters, the Bell and Gong units are activated by buttons on the Signal Activator TI65-M.

Operating

The Signal Activator TI65-M has 2 manual push buttons, each for bell and gong, and one 3 way switch knob for automatic activation of the repeating character shown to the right. The switch knob has also an off function in the middle position. Just turn the knob to desired character and the Electronic Bell & Gong will start automatically.

By using the manual push buttons each Bell or Gong can be operated.

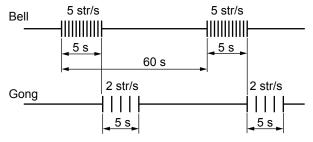
Power Amplifier BG 300

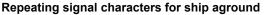
The power amplifier BG 300 is developed by using the latest amplifier technology. The sound for bell and gong is recorded and syntheized from real bell and gong instruments and has a very authentic characteristic.

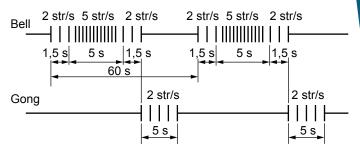
It only requires 24V DC (7A) and max outpower is 2 x 120W.

The Power Amplifier BG 300 is to be mounted indoors and protected against water.

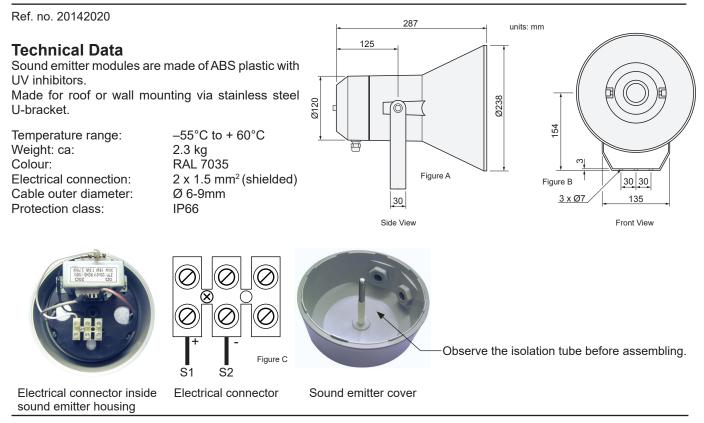
Repeating signal characters for ship at anchor



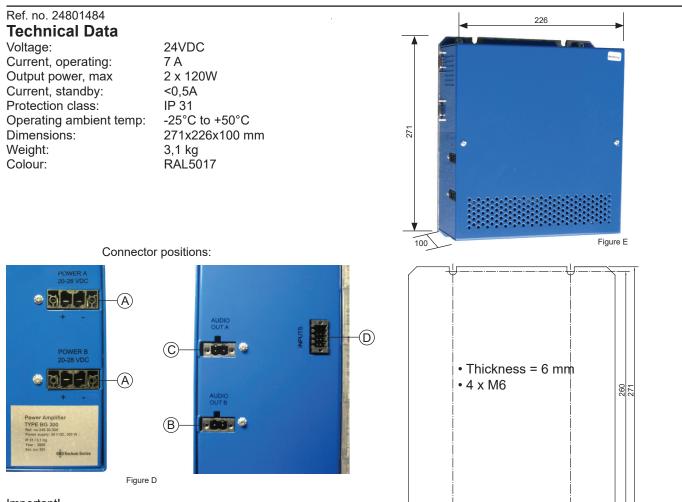




Electronic Bell and Gong BG 300



Power Amplifer BG 300



Important!

The connectors can only be inserted in one position. Connector C and D are also coded to avoid faulty insert positions.

(mounting plate on amplifier)

Figure F

130

226

Signal Activator TI65-M

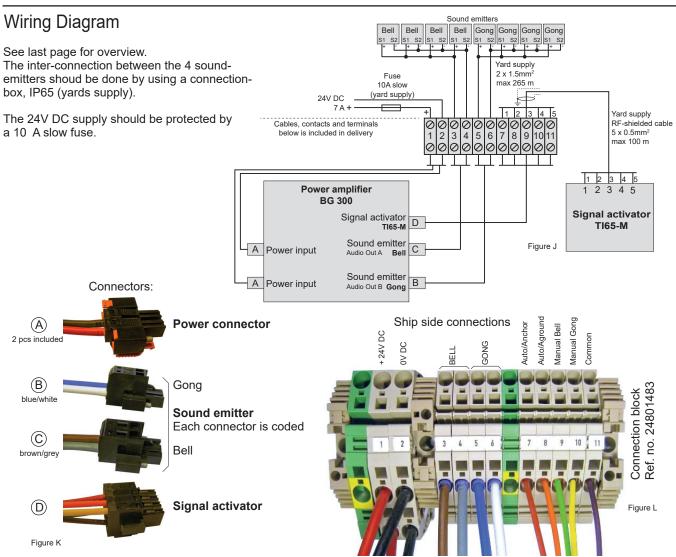
Ref. no. 24530189

Technical Data

- Switch knob (1,2) to choose OFF, AGROUND or ANCHOR signal Panel - 2 push buttons (3,4) for manual BELL or GONG signalling. -18 55 18-9 ande Green 'ellow TI65-M BELL & GONG Sed (3)(4 Front: BELL 72 x 144 mm Ъ 136 GONG Hole in panel: 5 (1)(2)ANCHOR 68 x 138 ((

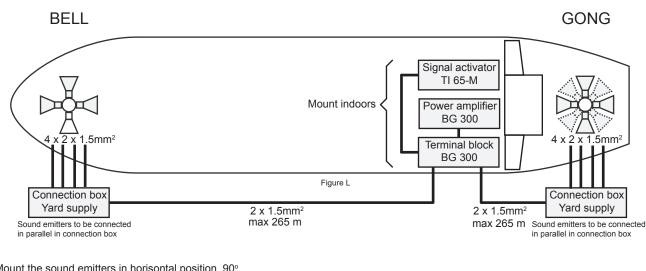
Kockum Sonics Side view Figure G Figure I Screw terminal on rear side Figure H

External wiring diagram

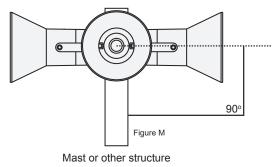


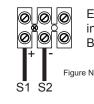
Position of plugs is shown in figure D and J.

Overview



Mount the sound emitters in horisontal position, 90°





Electrical connector inside sound emitter. Be sure to connect in parallel

Fault finding scheme

Symptoms	Fault	Solution
Anchor or Aground function not working	Cable fault	Check cable between TI65-M and connection block
Manual Bell or Gong not working	Cable fault	Check cable between TI65-M and connection block
No sound when activating	Cable fault	Check cable between TI65-M and connection block Check cable between connection block and sound emitters
- " -	No power supply	Check voltage on terminal 1 and 2 on the connection block

Recommended spare parts

Part name	Ref. No.
Switch knob	205.07.022
Switch block	205.02.007
Push button	205.07.020
Lens plate	205.07.021
Sound emitter	201.42.020

Spare Parts can be obtained from Kockum Sonics or their agents. When ordering, please, give reference number and part name.

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