

TECHNICAL DATA SHEET

Rating

Due to heat build up during the normal operation of the horn it has a Maximum ON time of 2 minutes and a minimum OFF time of 5 minutes. It is possible to increase the ON time by use of a timer, cycling the horns tone ON & OFF to reduce heat build up and extend the signal duration.

To maintain the IP rating of the horn always ensure that the trumpet is fixed at 90 degrees or less from the mounted Vertical access. This helps keep the inner trumpet free from fluid & debris build up etc.

Part Code:	Voltage:	Frequency:	Current:
AHA1-2001	24v Dc ---	420 HZ	2.30 A
AHA1-2004	115v Ac ~	420 HZ	0.84 A
AHA1-2006	230v Ac ~	420 HZ	0.76 A

Key Features

- Terminals except up to 2.5mm² cable
- Ingress Protection: Weatherproof IP65
- Case Material: Zinc Plated Mild Steel & Powder Coated Trumpet Assy
Die Cast Zinc & Powder Coated Back Plate
Die Cast Aluminium internal Casting
UV Stable ABS Motor Cover
- Operating Temperature: -20⁰c to +66⁰c
- AC Supply 50/60Hz

Optional Equipment

M01131 : ½” NPT female/M20 male adaptor



INSTALLATION & TECHNICAL INFORMATION

PLEASE READ PRIOR TO INSTALLATION



A1 Motor Driven Klaxon Horn

AUDIBLE SIGNALLING DEVICE

APPROVED AND
CONFORMITIES



1.0 Introduction

The hooter (horn) is of the motor driven type, the note being produced by the revolution of a hardened serrated steel rotor against a hardened steel stud riveted to the centre of a diaphragm.

The unit should be mounted using the mounting bracket fitted to the back plate of the trumpet assembly utilising the 2 x 7mm (9/32") mounting holes. This should only be attached to services that can adequately support its weight.

Installation

Once the ideal position for the unit has been chosen and has been secured in place. Carefully remove the 2 x M5 pozi screws holding the black plastic motor cover in place and remove the cover and retain. Take note at this stage of the black nitrile O ring situated on the machined spigot of the casting.

The power cable outer shroud should be cut back by 13cm (5") approx. to allow the inner cables to be threaded in between the wound field pack and the outer edge of the un-painted casting. Feed the power cables through a suitable rated male M20 gland and through the M20 female aperture in the casting. Route cabling as above ensuring that enough outer cable shroud is available to the seal the gland correctly.

Note: ½" NPT female/M20 male adaptors are available as optional accessories if required.

Cable termination is for up to 2.5mm² two way block Red = Positive/Live – Black = Negative/Neutral with an Earth/Ground screw termination (as marked) on the opposite side of the casting.

Cut end cable tails back to suit best fit and terminate in the terminal block and if required attach a suitable spade/ring terminal (not supplied) to the earth/ground cable & attach under The earth/ground screw head.

Carefully replace the black motor cover ensuring that the O ring is in place and holes in the cover match up with the self tapped holes in the base of the casting. Ensure O ring is firmly abutted to the spigot and that the cover gives a good all round seal. Fix cover in place with 2 x M5 screws.

General Installation notes

- Installation must be carried out in accordance with the latest codes and regulations by a qualified electrician.
- Ensure power is disconnected prior to installation or maintenance.
- Environmental exposure conditions during installation should be dry, not moist or wet.
- Avoid mounting the sounder where it will be subject to excessive vibration.

Maintenance & Adjustment

The horn is adjusted to give its best performance before leaving the factory. After prolonged use however, it may become necessary to re-adjust the horn to compensate for diaphragm stud wear. This will be noticeable by the poor quality of the note emitted.

Adjustment

The object of adjustment is to obtain the correct pressure between the rotor and stud. Upon this depends the quality of the note emitted and the overall life of the unit.

- 1 Remove horn from its installation.
2. Support the horn by its mounting bracket. Remove the 6 x 6mm screws that hold the trumpet assembly, baffle plate and diaphragm assembly to the body casting.
- 3 Remove one 1 x 0.15mm paper gasket from between the diaphragm and the body.

Note: Removing more than one gasket before re-checking the output could cause the adjustment to be 'hard on' and result in the motor stalling or overheating and could cause the diaphragm to crack.

4. Replace the trumpet assembly, baffle plate & diaphragm assembly and tighten 6 x 6mm screws evenly.
5. Hold the black plastic motor body and switch on power momentarily to ensure that the motor is free running.
6. Check sound output is satisfactory and ensure that the motor 'over-runs' slightly when power is switched off.
7. Repeat steps 2-6 if output is still low.

