



MHS 30/TC

WEATHERPROOF METAL HORN LOUDSPEAKERS



This heavy-duty weatherproof metal horn loudspeaker has been designed with the industrial market. Being resistant to salt laden air and non-corrosive makes it suitable for both indoors and outdoors use. It offers a lockable mounting bracket manufactured in stainless steel, a variable tapping selector switch found in the die cast aluminum chamber as well as ceramic termination and thermal fuse for use in voice alarm applications. (BS5839 part 8 standard) Cable entries are provided enabling loop in loop out installation, avoiding the necessity of using a junction box.

The MHS 30/TC is manufactured in part spun and part cast aluminum giving strength and durability. The sound quality of MHS 30/TC is exceptional and is suitable for factories, railways, ports, airports etc..

• Electrical

Rated power, watts	30
Tappings 100 volt line, watts	30/15/7.5/3.75/1.87
Transformer impedance, ohms 100V	333/666/1.33k/2.66k/5.33k
Driver impedance, ohms	8
Effective frequency range, Hz (BSEN60268-5)	300 - 16,500
S.P.L. @ 1m, 1 watt, dB, octave, 100 Hz - 10 kHz	108
S.P.L. @ 1m, full power, dB, octave, 100 Hz - 10 kHz	121
S.P.L. @ 4 m, 1 watt, dB, 1/3 octave, 100 Hz - 10 kHz	94
S.P.L. @ 4 m, full power, dB, 1/3 octave, 100 Hz - 10 kHz	104
Dispersion at 1k/2k Hz, degrees	143/66

• Environmental

IP rating	66
Min/max amb temp	-25°C to 70°C
Relative humidity	≤95%

• Mechanical

Dimensions, mm	φ217 x 297
Net weight, kg	3.375
Colour (unless specified)	Grey, RAL7035
Material	Die cast aluminium housing
Mounting	Steel L bracket
Safety	Ceramic block Thermal fuse

* MHS 30/TC is BS5839 Part 8 voice alarm compliant but not EN 54-24 certified



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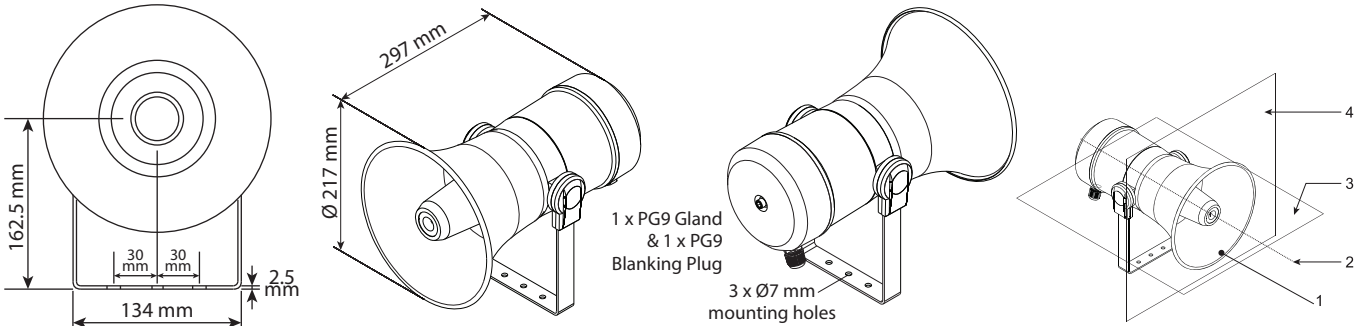
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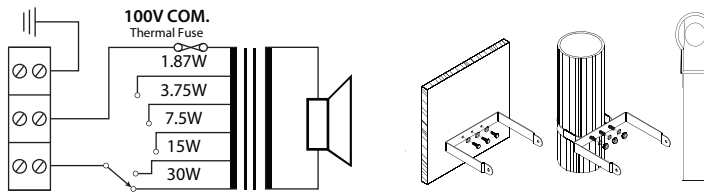
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INSTALLATION GUIDE

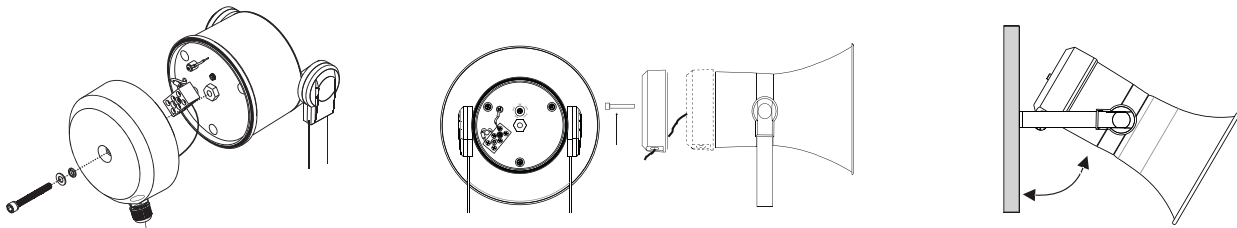


1. loudspeaker enclosure
2. reference axis
3. reference plane
4. horizontal plane

CIRCUIT DIAGRAM



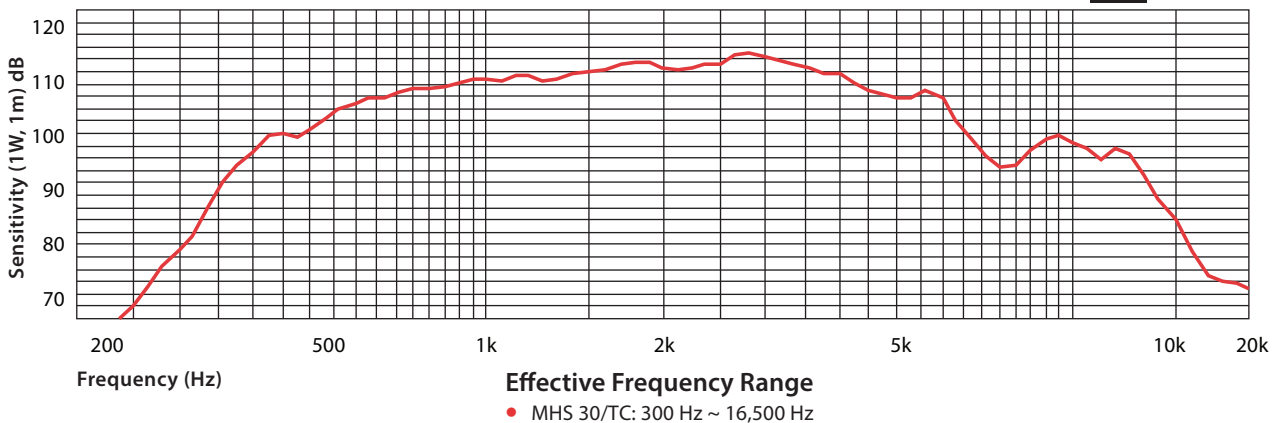
1. Remove the "U" bracket from the speaker. The fixing is concealed by a plastic cover which needs to be removed in order to undo the fixing holding the "U" bracket in place. Once removed align the bracket and mark the fixing points. Fix the bracket using suitable fixings (Not supplied).



2. On removing the back lid of the Horn you will observe a 3 way ceramic terminal block that is connected to the 100v line transformer. To select the required tapping use a flat headed screw driver and rotate the tapping selector located next to the terminal block to your chosen tapping. The tapping values are marked and run from 30 watts to 1.87 watts.
3. On selecting the required tapping the installation cable can be fitted via suitably rated glands into the 2 x 20 mm gland entries provided on the back lid.
4. Around the inner section of the chamber where the back lid was removed a rubber gasket is located; please make sure that it is in place when re-fitting the back lid to avoid water penetration.
5. Re-fit the speaker to the "U" bracket. Position the speaker to the desired angle then tighten the fixings to secure in place. Then re-fit the plastic covers to protect the "U" bracket fixings.
6. Before connecting the speaker circuit to the power amplifier we strongly advise that the impedance of the circuit is checked to ensure it is fault free in order to prevent damage to the speaker and or amplification.



FREQUENCY RESPONSE



Disclaimer: We reserve the right of changes and errors.



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