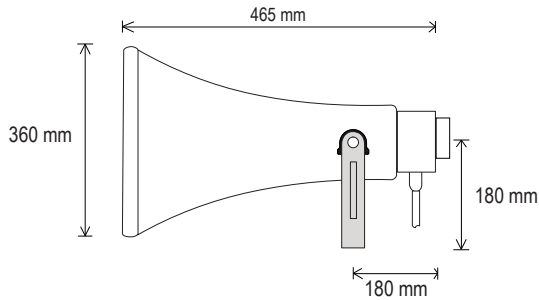


Introduction

HS810 is an outdoor high power clear horn speaker, which is built to differ from other conventional aluminum flare horns. It has better frequency response, while able to deliver the distance required with better sound quality, both for voice and non bass music.

It is rated at IP65, 50W 100V or 100W 8 Ohm with power tapping at 50 / 25 / 12.5 W 100V line. HS810 is suitable for large factories, beaches, mosques and other installations that require loudness and extra clarity.

Physical Dimensions



Technical Specifications

Power rating 50W 100V line / 100W 8 Ohm

Speaker / driver 4" woofer + 1" HF

Operating voltage 70 / 100V

Power taps 12.5 / 25 / 50W 100V line

100W @ 8 Ohm

Frequency response 200 - 8 kHz

SPL @ 1W / m 103 dB

Max SPL @ 1m, 1 kHz 120 dB

Coverage angle - 1 kHz 73 deg

- 4 kHz 84 deg

- 8 kHz 45 deg

Operating temperature -5 to 60 deg

Humidity < 90 %

IP rating IP 65

Flare / bracket Aluminum, MS epoxy coated

Overall size (W/O bracket) 360 x 465 mm

Weight 4.10 kg

Colour Beige

Guide to Installation

1 Unpacking and check contents

Unpack the horn speaker from the carton and the following items shall be available :

1. Horn speaker with bracket attached
2. Instruction manual

Mounting fasteners are not provided. Below are recommended parts for mounting the speaker

M5 x 50mm expandable bolts x 2 pcs

M5 Spring washer x 2

M5 Washer x 2

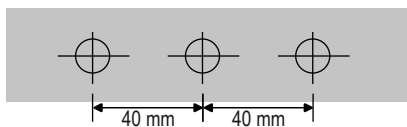
#10 x 1 1/2" self tapping screws x 2 pcs

Wall plugs x 2 pcs

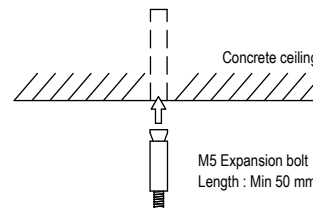
Recommended for ceiling / slab mounting

2 Wall / Ceiling bolt mountings

The horn speaker can be mounting on the ceiling or wall. Using bolt and nuts is highly recommended especially for ceiling installation. For wall mounting, using M5 self tapping screws with wall plugs is possible.

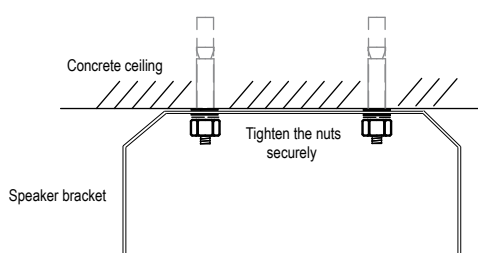
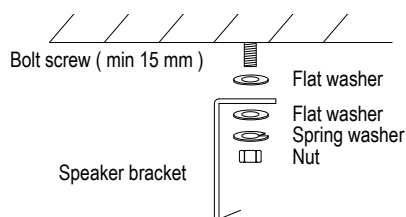


Mark and drill holes to the wall / ceiling with drill bit size suitable to insert M5 expandable bolts

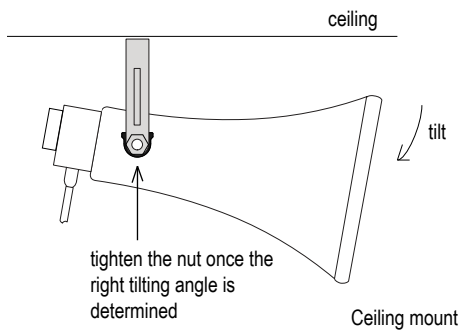


3 Speaker mounting

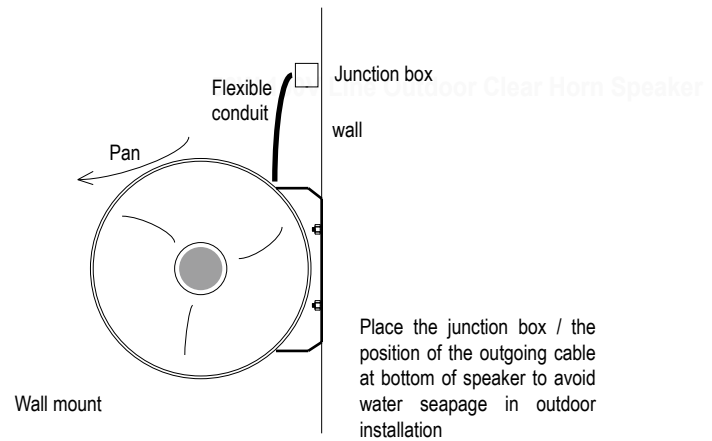
Mount the horn speaker assembly's bracket to the bolt together with the washer, spring washer and the nuts.



4 Secure horn flare to mounting bracket

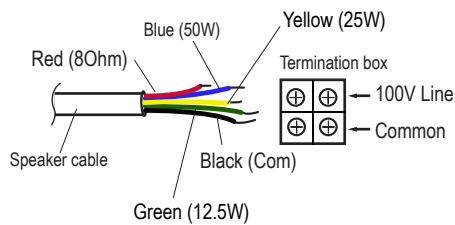


For outdoor installation, it is always recommended to tilt the speaker downwards to avoid water collection during rain.



5 Terminating the cable

Select the power rating required when terminating the cable.



	Green	Yellow	Blue	Red
100V	12.5W	25W	50W	-
8 Ohm	-	-	-	100W

WARNING :

Do not connect Red and Black (Common) when using power amplifier with 70 / 100V line outputs.

The power tap to be used is subjected to the required coverage area, the distance between the speaker and intended audience and the SPL expected at the targeted distance.

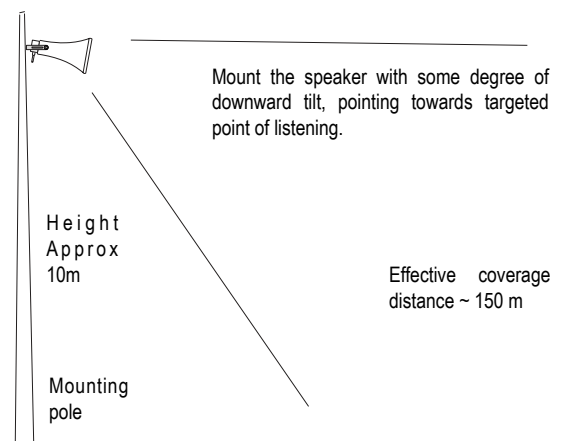
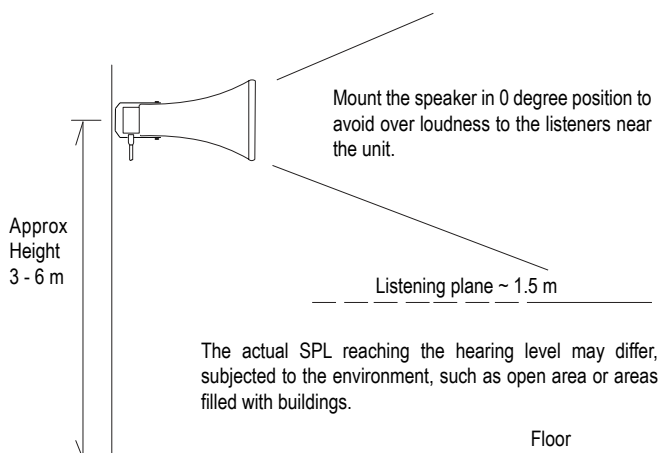
The chart illustrated here can be used to determine which power tap is suitable for the installed area.

SPL Distribution Chart for a direction : tilt angle : 0 degree.

SPL (dB) vs Distance (m) - @ 1 kHz

Horizontal Distance	1m	5m	10m	15m	20m	30m	40m	50m
1W (ref)	103	89	83	79	77	73	71	69
25W	117	103	97	93	91	87	85	83
50W	120	106	100	96	94	90	88	86

Tips for installation



Ver 2 / 0826



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Certificate No. 10011-1-0101-1-01-01