



## ELECTRONIC SOUNDERS AND POWERED LOUDSPEAKERS FOR USE IN MARINE AND INDUSTRIAL APPLICATIONS

- 8 watt, 114dBa @ 1m output
- 15 watt, 117dBa @ 1m output
- 25 watt, 123dBa @ 1m output
- On-board choice of 15 tones
- Remote tone selection
- Dual cable entries
- Integrated DC and AC voltages
- Short horn version (8W)
- Watertight to IP66/IP67

CE



# Marine/Industrial Sounders

## Model MS Series Sounders and Powered Loudspeakers

Federal Signal's model MS Series Sounders and Powered Loudspeakers are designed for rugged industrial applications where CE certification is required. The MS Series is comprised of two separate products that serve a variety of applications. First is a sounder that includes fifteen standard tones with a common power input that accepts an AC or DC power source. Once power is applied, a single tone may be selected through the use of a remote contact input, or all fifteen tones may be accessed independently by providing a binary string of information, specific to each tone. This allows a certain sound to match a specific alarm condition.

The second version of the MS Series is a powered loudspeaker. Once an AC or DC power source is applied, the powered loudspeaker is capable of amplifying a low-level audio signal, and reproducing it at 8, 15 or 25 watts, depending on the model selected. MS Series Powered Loudspeakers are the perfect option for ECHO Intercom systems, where CE approval is required.

The Model MS Series sounders and powered loudspeakers are available in three different configurations, from 8 watt to 25 watt, to provide an appropriate amount of sound for the ambient environment. To fine tune the product for each application, an internal volume adjustment potentiometer is provided.

Mounting is provided by a stainless-steel ratcheted mounting bracket that locks the sounder in position at a specific angle without slipping. The bottom surface of the mounting bracket also contains three mounting holes, to adapt to a variety of surfaces.

The MS Series is rated for IP66/67 through the use of a neoprene "O" ring seal. All exterior cast aluminum surfaces are finished in gray powder coat paint and external hardware is manufactured from stainless steel to resist corrosion.

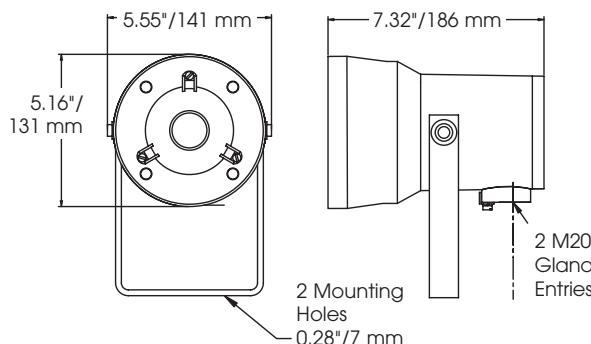
Model	Voltage	Operating Current	Equivalent Power
<b>MS1<sup>1</sup></b>	24VDC/120VAC/240VAC	950mA/210mA/125mA	8 watt
<b>MS1-112<sup>1</sup></b>	24VDC/120VAC/240VAC	950mA/210mA/125mA	15 watt
<b>MS4-120<sup>1</sup></b>	24VDC/120VAC/240VAC	950mA/210mA/125mA	25 watt
<b>MS1-114-14<sup>2</sup></b>	24VDC/120VAC/240VAC	500mA/125mA/90mA	8 watt
<b>MS1-112-14<sup>2</sup></b>	24VDC/120VAC/240VAC	500mA/125mA/90mA	15 watt
<b>MS5-120-EB<sup>2</sup></b>	24VDC	1200mA	25 watt
<b>MS5-120-EL<sup>2</sup></b>	120VAC	400mA	25 watt
<b>MS5-120-EM<sup>2</sup></b>	240VAC	210mA	25 watt

<sup>1</sup> MS-Series Sounder

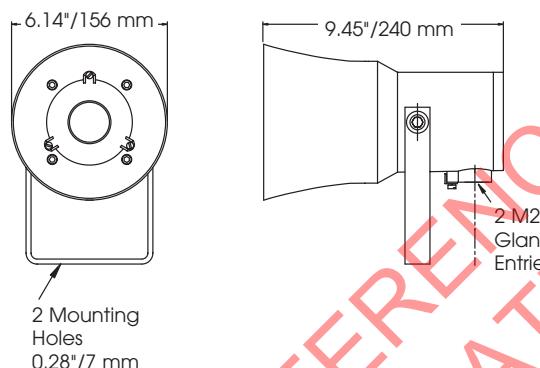
<sup>2</sup> MS-Series Powered Loudspeaker

## HAZARDOUS AREA SOUNDERS AND POWERED LOUDSPEAKERS (MS)

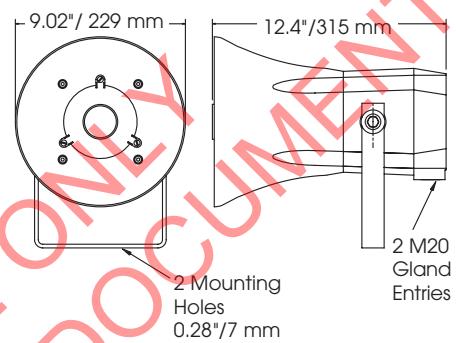
**8W**



**15W**



**25W**



### SPECIFICATIONS

Operating Voltages:

24VDC, 110/120VAC, 220/240VAC

Termination: For 1.5mm<sup>2</sup> conductors

Factory Default Setting:

240VAC

Net Weight:

Type:

8/15 Watt dual entry, 25 Watt dual entry

8W 6.6 lbs. 3.0kg

Material:

Aluminum Alloy LM6 (marine grade)

15W 7.1 lbs. 3.2kg

Color:

Grey to RAL7035

25W 14.1 lbs. 6.4kg

Mounting:

(epoxy powder coated semi-gloss)

Shipping Dimensions:

Output:

Stainless steel bracket (not painted)

8W 25 x 23 x 28cm

8W Short Horn

114dBA @ 1m (1kHz)

25W 32 x 30 x 37cm

15W

117dBA @ 1m (1kHz)

IP67

25W

123dBA @1m (1kHz)

IP66 and IP67

Cable Entries (bottom):

2 x M20

(Supplied with 1 x EEx stopping plug)

-20°C to 70°C

<sup>1</sup> 8W/15W

<sup>2</sup> 25W

**Notes:** Audio input user selectable.

Available inputs are 0.8V, 1.5V and 2.7V.

### HOW TO ORDER

- Contact Factory for Specification Assistance