



► Model ES Series

# Hazardous Location Sounders and Powered Loudspeakers

Federal Signal's Model ES Series Sounders and Powered Loudspeakers are designed for rugged industrial applications where ATEX certification is required. The ES 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 ES 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. ES Series powered loudspeakers are the perfect option for ECHO Intercom systems, where ATEX approval is required.

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.

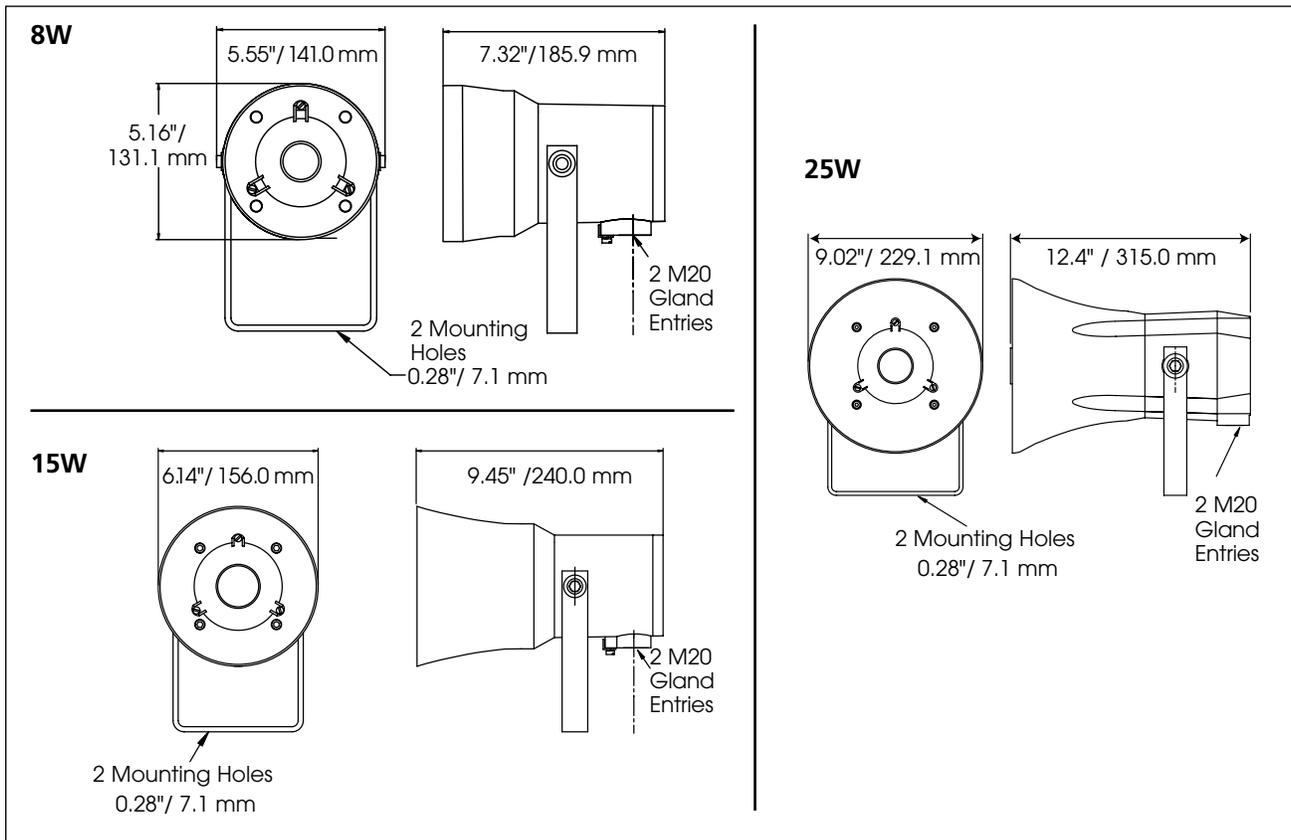
Model ES Series 8 watt and 15 watt are IP67 rated; the 25 watt model is rated for both IP66 and IP67. All exterior cast aluminum surfaces are finished in red powder coat paint and external hardware is manufactured from stainless steel to resist corrosion.

## FEATURES

- 8 watt, 104 dBa @ 1m
- 15 watt, 107 dBa @ 1m
- 25 watt, 116 dBa @ 1m
- Remote tone selection
- Dual cable entries
- 15 tones on-board sounder
- Integrated DC and AC voltages
- Short horn version (8W)
- Approved for Zone 1 IIB and IIC
- IP66 or IP67 enclosure
- ES4-120 and ES5-120 versions are IECEx, INMETRO and EAC only
- ATEX, IEXCx, and CE Rated

MODEL	TYPE	VOLTAGE	OPERATING CURRENT	EQUIVALENT POWER
<b>ES1-114-7MT</b>	Sounder	24VDC/120VAC/240VAC	950 mA/210 mA/ 125 mA	8 watt IIB
<b>ES1-114-2MT</b>	Sounder	24VDC/120VAC/240VAC	950 mA/210 mA/ 125 mA	8 watt IIC
<b>ES1-112-7MT</b>	Sounder	24VDC/120VAC/240VAC	950 mA/210 mA/ 125 mA	15 watt IIB
<b>ES1-112-2MT</b>	Sounder	24VDC/120VAC/240VAC	950 mA/210 mA/ 125 mA	15 watt IIC
<b>ES4-120-7MT</b>	Sounder	24VDC/120VAC/240VAC	950 mA/210 mA/ 125 mA	25 watt IIB
<b>ES1-114-74</b>	Powered Loudspeaker	24VDC/120VAC/240VAC	500 mA/125 mA/90 mA	8 watt IIB
<b>ES1-114-24</b>	Powered Loudspeaker	24VDC/120VAC/240VAC	500 mA/125 mA/90 mA	8 watt IIC
<b>ES1-112-74</b>	Powered Loudspeaker	24VDC/120VAC/240VAC	500 mA/125 mA/90 mA	15 watt IIB
<b>ES1-112-24</b>	Powered Loudspeaker	24VDC/120VAC/240VAC	500 mA/125 mA/90 mA	15 watt IIC
<b>ES5-120-73EB</b>	Powered Loudspeaker	24VDC	1200 mA	25 watt IIB
<b>ES5-120-73EL</b>	Powered Loudspeaker	120VAC	400 mA	25 watt IIB
<b>ES5-120-73EM</b>	Powered Loudspeaker	240VAC	210 mA	25 watt IIB

## Hazardous Location Sounders and Powered Loudspeakers (ES)



### S P E C I F I C A T I O N S

**Operating Voltages:** 24VDC, 110/120VAC, 220/240VAC  
**Factory Default Setting:** 240VAC  
**Type:** 8/15 watt dual entry, 25 watt dual entry  
**Material:** Aluminum Alloy  
**Color:** Signal red  
**Mounting:** Stainless steel bracket (not painted)  
**Output:**  
 8W Short Horn Series IIB 104 dBa @ 1m (1kHz)  
 8W Short Horn Series IIC 100 dBa @ 1m (1kHz)  
 15W Series IIB 107 dBa @ 1m (1kHz)  
 15W Series IIC 103 dBa @ 1m (1kHz)  
 25W Series 116 dBa @ 1m (1kHz)  
**Cable Entries (bottom):** 2 x M20  
 (Supplied with 1 x EEx stopping plug)  
**Operating Temperature:** -4°F to 104°F -20°C to 40°C (T6)  
 -4°F to 131°F -20°C to 55°C (T5)  
 -4°F to 158°F -20°C to 70°C (T4)  
**Termination:** For 1.5mm<sup>2</sup> conductors

**Net Weight:**  
 8W 7.1 lbs 3.2 kg  
 15W 9.0 lbs 4.1 kg  
 25W 14.1 lbs 6.4 kg

**Shipping Dimensions:**  
 8W/15W 11 x 11 x 11 in  
 25W 12.13 x 11.19 x 13.56 in

**Certificate Number:**  
 Baseefa03ATEX0689X, II 2 G EExd IIC T4...T6

**Ingress Protection:**  
 8W/15W IP67  
 25W IP66 and IP67

**Certificate Number:**  
 25W Nemko 05ATEX1036, II 2 G EExd IIB T4...T6

**Notes:** Audio input user selectable.  
 Available inputs are 0.8V, 1.5V and 2.7V.

### H O W T O O R D E R

Contact factory for assistance