



► Models 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/IECEx 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 25 watts. The user-selectable audio inputs available are 0.8 V, 1.5 V, and 2.7 V. ES Series powered loudspeakers are the perfect option for ECHO Intercom systems, where ATEX/IECEx 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 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.

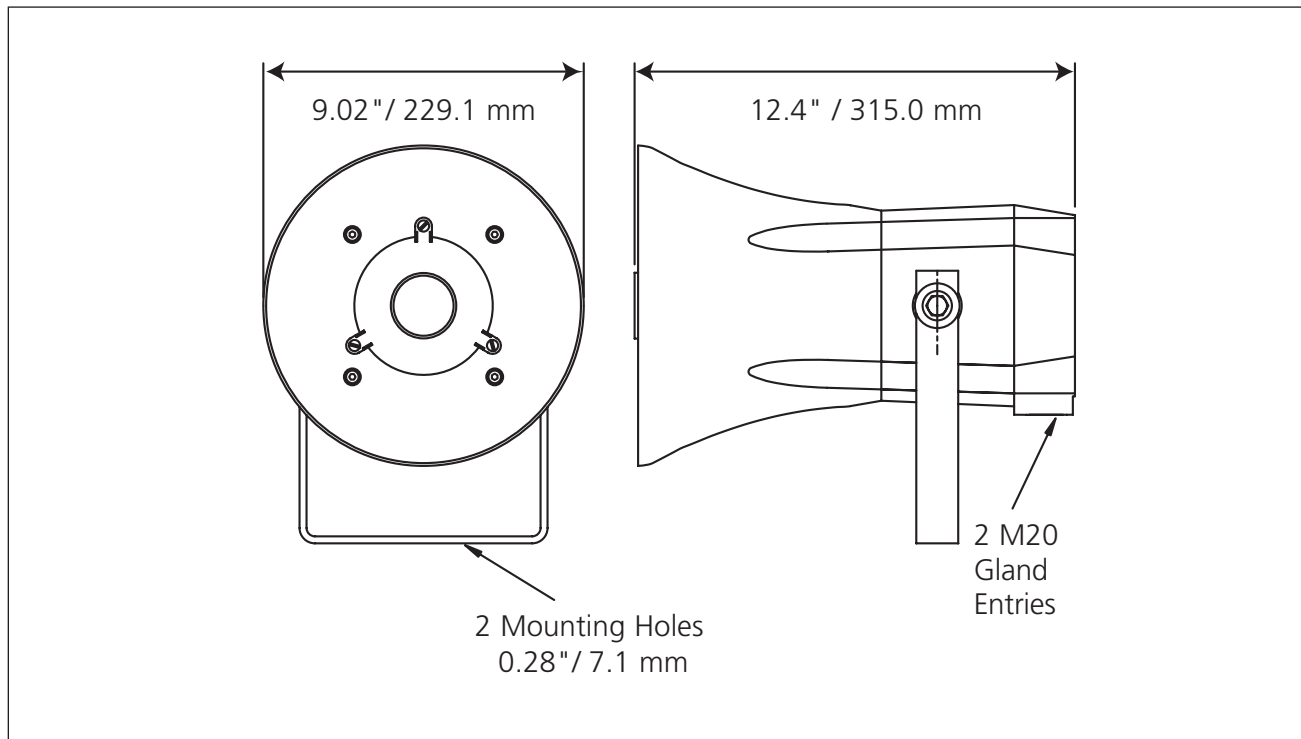


FEATURES

- 25 watt, 116 dBa at 1 m
- Remote tone selection
- Dual cable entries
- 15 tones on-board sounder
- Integrated DC and AC voltages
- Approved for Zone 1 IIB
- IP66 or IP67 enclosure
- ATEX, IECEx, and CE Rated
- CE and UKCA compliant

MODEL	TYPE	VOLTAGE	OPERATING CURRENT	EQUIVALENT POWER
ES4-120-7MT	Sounder	24 Vdc/120 Vac/240 Vac	950 mA/210 mA/ 125 mA	25 watt IIB
ES5-120-73EB	Powered Loudspeaker	24 Vdc	1200 mA	25 watt IIB
ES5-120-73EL	Powered Loudspeaker	120 Vac	400 mA	25 watt IIB
ES5-120-73EM	Powered Loudspeaker	240 Vac	210 mA	25 watt IIB

Hazardous Location Sounders and Powered Loudspeakers (ES)



SPECIFICATIONS

Operating Voltages:	24 Vdc, 110/120 Vac, 220/240 Vac
Factory Default Setting:	240 Vac
Type:	25-watt dual entry
Material:	Aluminum Alloy
Color:	Signal red
Mounting:	Stainless steel bracket (not painted)
Output:	
25 W Series	116 dBa at 1 m (1 kHz)
Cable Entries (bottom):	2 x M20
(Supplied with 1 x EEx stopping plug)	
Operating Temperature:	-4° to 104°F (-20° to 40°C) (T6) -4° to 131°F (-20° to 55°C) (T5) -4° to 158°F (-20° to 70°C) (T4)
Termination:	2.5 mm ² conductor max
Net Weight:	
25W	14.1 lb (6.4 kg)
Shipping Dimensions:	
25W	12.13 x 11.19 x 13.56 in
Ingress Protection:	
25W	IP66
Certificate Number :	
25W	Nemko 05ATEX1036, II 2 G EExd IIB T4...T6