



# Marine/Industrial and Hazardous Area Loudspeakers

## Models 110-120 Loudspeakers

Federal Signal's model 110-120 Series Loudspeakers are designed for use in industrial public address and general alarm applications, where ATEX certification is required. The 110-120 Series Loudspeakers are available in either an ATEX Zone 1 explosion-proof version or a CE compliant, Marine-grade Industrial version.

Model 110-120 Series Loudspeakers are available in three different configurations, from 8 watt to 25 watt, to provide an appropriate amount of sound for the ambient environment. Each speaker is transformer coupled to fine tune the sound output for each application, and balance the audio load. Available audio inputs are 100 Vrms, 70 Vrms and 8-Ohm.

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 110-120 Series Loudspeakers are rated for IP66/67 through the use of a neoprene "O" ring seal. All exterior cast aluminum surfaces are finished in powder coat paint and external hardware is manufactured from stainless steel to resist corrosion.

### EXPLOSION-PROOF SERIES

- 8 watt, 110dBa output
- 15 watt, 116dBa output
- 25 watt, 123dBa output
- Approved for Zone 1 IIB and IIC
- CE Compliant
- ATEX certified
- Integrated Speaker Monitoring & remote Tapping (I.S.M.T.)
- IEC Certified (25 watt versions)

### MARINE/INDUSTRIAL SERIES

- 8 watt, 114dBa output
- 15 watt, 118dBa output
- 25 watt, 125dBa output
- CE-Compliant
- Integrated Speaker Monitoring & remote Tapping (I.S.M.T.)

#### FREQUENCY RANGE

110 SERIES (8W) <sup>1</sup>	110 SERIES (15W) <sup>1</sup>	120 SERIES (25W) <sup>1</sup>
600-4000 Hz	390-4500 Hz	350-4000 Hz
110 SERIES (8W) <sup>2</sup>	110 SERIES (15W) <sup>2</sup>	120 SERIES (25W) <sup>2</sup>
500-8000 Hz	390-8500 Hz	300-3700 Hz

<sup>1</sup> Explosion Proof    <sup>2</sup> Marine

#### AMBIENT TEMPERATURE RANGE

T4 <sup>1</sup>	T5 <sup>1</sup>	T6 <sup>1</sup>
-20°C to +70°C	-20°C to +55°C	-20°C to +40°C
-20°C to +70°C <sup>2</sup>		

<sup>1</sup> Explosion Proof    <sup>2</sup> Marine

#### EXPLOSION PROOF RATED

SPL@1kHz (Full power @ 1 meter)

8W-IIB	8W-IIC	15W-IIB	15W-IIC	25W-IIB
110dBa	106dBa	116dBa	112dBa	123dBa

SPL@1kHz (1 watt @ 1 meter)

8W-IIB	8W-IIC	15W-IIB	15W-IIC	25W-IIB
110dBa	106dBa	116dBa	112dBa	123dBa

#### MARINE RATED POWER

SPL@1kHz @ (Full power @ 1 meter)

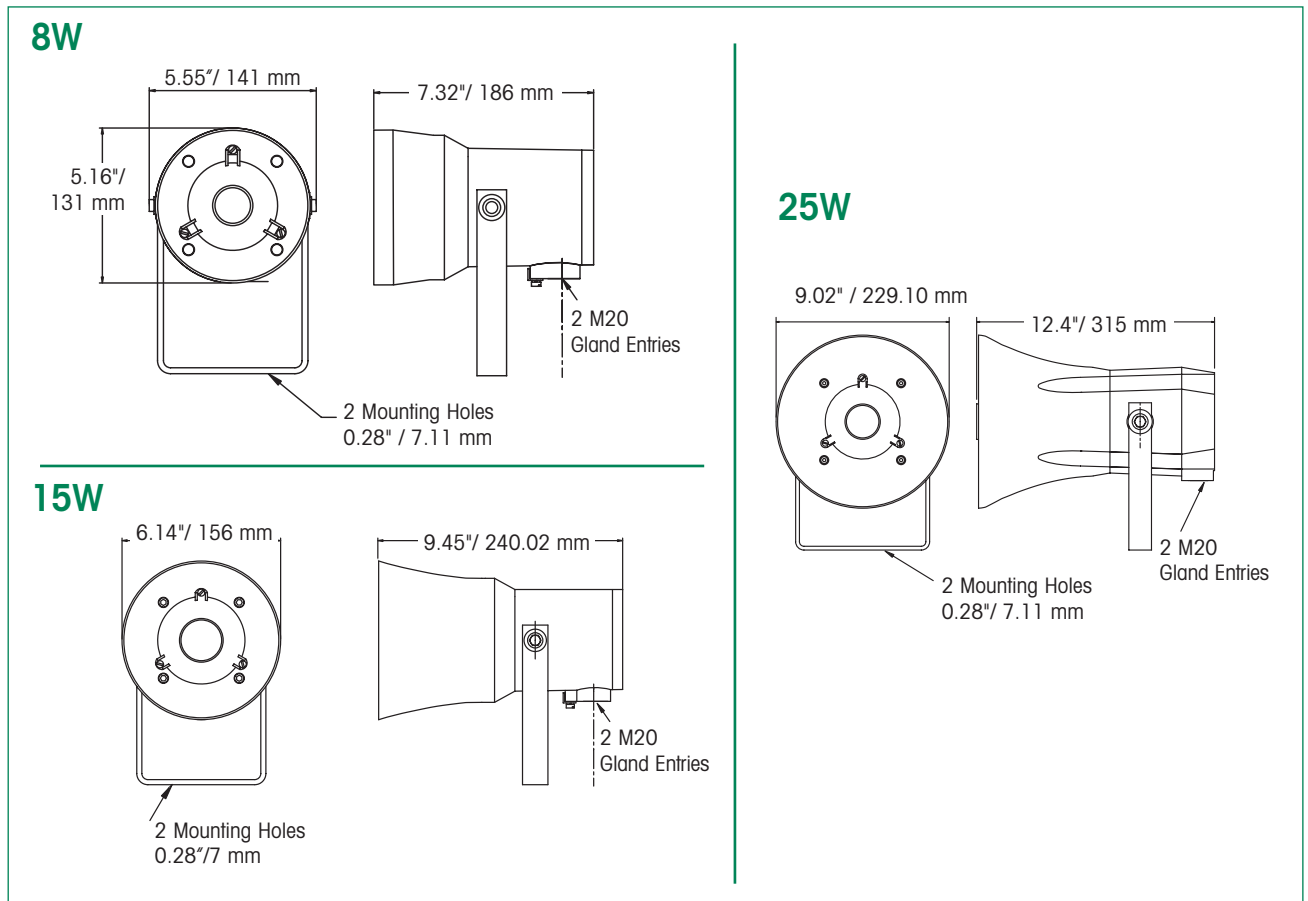
8W	15W	25W
114dBa	118dBa	125dBa

SPL@1kHz @ (1 watt @ 1 meter)

8W	15W	25W
104dBa	106dBa	107dBa



## LOUDSPEAKER SERIES (110-120)



### CERTIFICATION AND APPROVAL

#### 110 SERIES—8 AND 15 WATT

Baseefa 03ATEX0688X II2G EExdIIBT4 (T6)

Baseefa 03ATEX0689X II2G EExdIICT4 (T6)

#### 120 SERIES—25 WATT

Nemko 05ATEX1036 II2G EExd IIBT4 (T6)

IEC IEC ExNMO4.0002

#### MARINE

Electromagnetic compatibility to EN 61000-6-1,2,3,4: 2001

### STANDARDS

EN50014:1997 + A1:1999 + A2 :1999

EN50018:2000 + A1, EN50019:2000

#### CE

EMC to EN 61000-6-1,2,3,4:2001

LVD to EN 60065

### INGRESS PROTECTION EXPLOSION-PROOF

8 Watt/15 Watt IP66 & IP67-EN60529

25 Watt IP66 & IP67-EN60529

#### MARINE

IP66 & IP67-EN60529

### SPECIFICATIONS

#### Net Weight:

8 Watt Short horn Series	6.6 lbs.	3.0 kg
15 Watt Series	7.1 lbs.	3.2 kg
25 Watt Series	14.1 lbs.	6.4 kg

#### Shipping Dimensions:

29 x 29 x 30 cm (8 Watt/15 Watt) 32 x 30 x 38 cm (25 Watt)

#### Dispersion Angle:

Short Horn Series, 8 Watt	180°
Standard Horn Series, 15 Watt	120°
120 Horn Series, 25 Watt	120°

#### Type:

8/15/25 Watt dual entry

#### Gland Entries:

2 x M20 x 1.5 mm

#### Cable Terminations:

6A, 1.5 mm conductors

#### Mounting:

Stainless steel bracket (not painted)

#### Material:

Body & Horn—Marine Grade Aluminum Alloy

#### Audio Input:

100Volt, 70 Volt and 8 ohms

### HOW TO ORDER

- Contact Factory for Specification Assistance