



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

¹Explosion Proof ²Marine

AMBIENT TEMPERATURE RANGE

| T4 ¹ | T5 ¹ | T6 ¹ |
|-----------------------------|-----------------|-----------------|
| -20°C to +70°C | -20°C to +55°C | -20°C to +40°C |
| -20°C to +70°C ² | | |

¹Explosion Proof ²Marine

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)

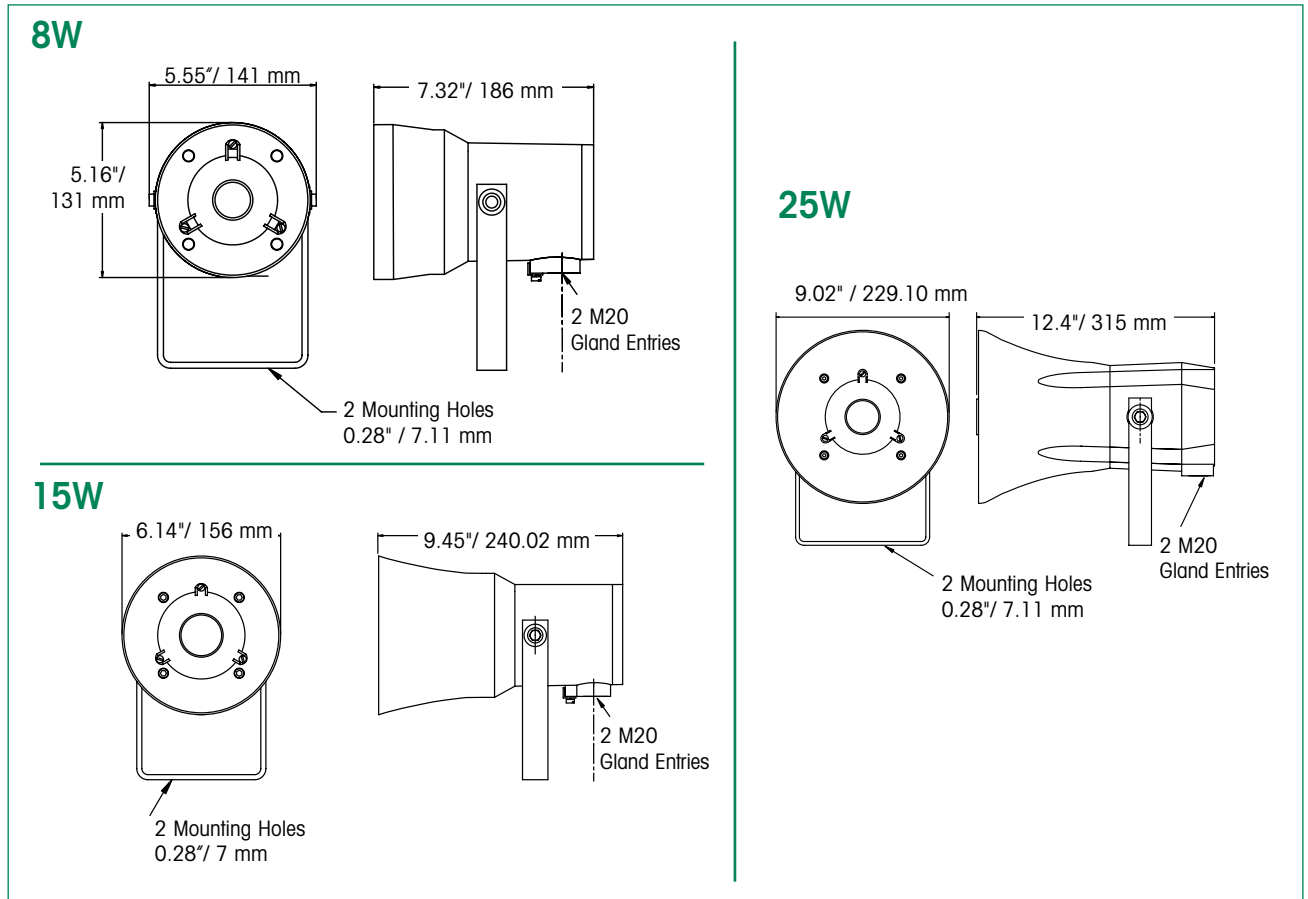
| 8W | 15W | 25W |
|--------|--------|--------|
| 104dBa | 106dBa | 107dBa |



Tollfree in Western Canada: 1-888-388-1592
microwatt.com • mwsales@microwatt.com



LOUDSPEAKER SERIES (110-120)



CERTIFICATION AND APPROVAL

110 SERIES—8 AND 15 WATT

Baseefa 03ATEX0688X I12G EExdIIBT4 (T6)

Baseefa 03ATEX0689X I12G EExdIICT4 (T6)

120 SERIES—25 WATT

Nemko 05ATEX1036 I12G 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: 100 Volt, 70 Volt and 8 Ohms

HOW TO ORDER

- Contact Factory for Specification Assistance