



Model G-SPA

Global Series® Hazardous Location Amplified Speaker

Federal Signal Global Series® Amplified Speakers are designed for rugged industrial public address and general alarm applications. These models are available in explosion-proof Ex d versions and increased safety Ex de wiring box versions and are certified for gas Group IIC environments.

Global Series Amplified Speakers are capable of amplifying audio-level signals from either 0.8, 2.8, or 25 Vrms systems and reproducing it at 15 watt levels. Global Series Amplified Speakers work perfectly with ECHO Intercom systems, or with any application requiring audio amplification where ATEX or IECEx approval is required or desired.

The Global Series Amplified Speaker can be combined with all other Global Series audible and visual products in several custom configurations. Custom configurations can be ordered directly from the factory. Optional coupling kits, which allow limited field fixturing, are available.

FEATURES

- Optional 316 stainless steel ratchet adjustable mounting U-bracket (field installation required)
- Non-metallic corrosion resistant design
- Gain control
- Supports 3 operational voltages: 24VDC, 120VAC 50/60 Hz, and 230VAC 50/60 Hz
- Field customizable legend plates available¹
- Two M20 entries standard on Ex d models, three M20 entries standard on Ex de models
- Type 4X, IP66 enclosure
- Zone 1, 21 Rated, IECEx, ATEX, Ex d IIC, Ex de IIC and Ex tb IIIC
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; Class III
- UL and cUL Listed for Class I, Zone 1 AEx db IIC T4: Zone 21, AEx tb IIIC T4/135°C
- Optional indicator rings are available in six colors: Black, Blue, Green, Magenta, Red and Yellow

MODEL	OPERATING VOLTAGE	NOMINAL OPERATING CURRENT ²	AUDIO LEVELS LINE LEVEL/ECHO	DECIBELS ⁴	
				10'	1M
G-SPA	24VDC	0.370 A	0.8/2.8 or 25 Vrms	96	106
	120/230VAC 50/60Hz	0.060/0.040 A	0.8/2.8 or 25 Vrms	96	106

¹ Recommended labels: BRADY #B-855 Tough-wash labels or ULINE #S-16643 weather resistant

² Operating current varies with frequency content and input power

³ Ships with 2.8 Vrms selected; field switchable

⁴ Measured using a reference frequency of 1.25 kHz at nominal operating voltage and audio level

UL/cUL HAZARDOUS LOCATION RATING

TEMPERATURE CODE AT 70°C

Class I, Division 2, Groups A, B, C, D	T3C
Class II, Division 2, Groups F, G	T6
Class III	T6

UL/cUL HAZARDOUS LOCATION CLASS/ZONE

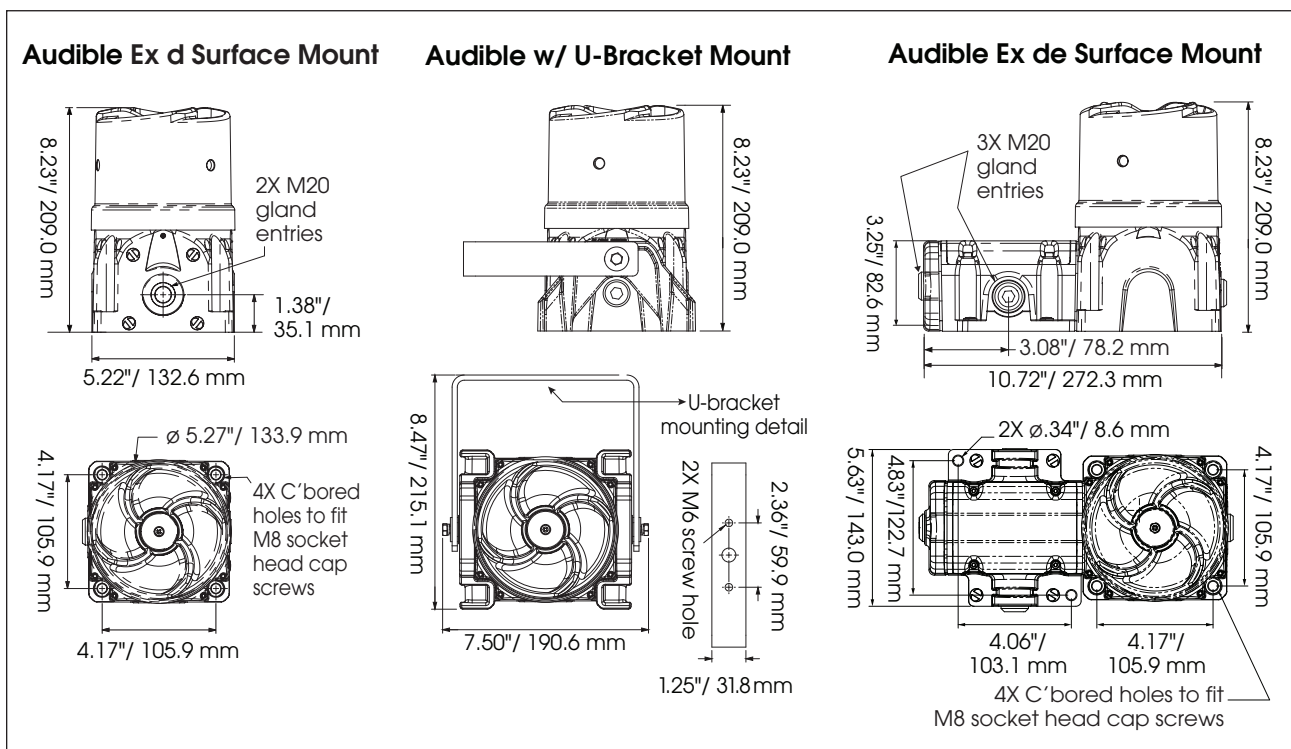
TEMPERATURE CODE AT 70°C

T4

ATEX/IECEx HAZARDOUS LOCATION RATING

TEMPERATURE CODE AT 49°C	TEMPERATURE CODE AT 70°C
T5 (in IIB)	T4 (in IIB)
T4 (in IIC)	T4 (in IIC)

Global Series® Hazardous Location Amplified Speaker (G-SPA)



SPECIFICATIONS

Operating Temperature: -67°F to 158°F -55°C to 70°C

Certification Marking: Ex db IIB T5 Gb or Ex db e IIB T5 Gb
Ex tb IIIC T100°C Db IP66
Ex db IIC T4 Gb or Ex db e IIC T4 Gb
Ex tb IIIC T135°C Db IP66
ATEX: Baseefa15ATEX0155X
IECEX: IECEX BAS 15.0104X

External Fasteners: 316 stainless steel

Terminals: Ex d: 10 way block (3 in, 3 out with audio input)
Ex de: 3-pole, 4 position quad pole terminal blocks

Cable Entries: Ex d: 2 entries - M20 x 1.5
Ex de: 3 entries - M20 x 1.5

UL and cUL Certification Marking:
Class I, Division 2, Groups A, B, C, D T3 @ 70°C
Class II, Division 2, Groups F, G T6 @ 70°C
Class III T6 @ 70°C
UL and cUL E12629

Net Product Weight

Ex d Surface Mount	9.65 lbs	4.38 kg
Ex d U-Bracket Mount	11.63 lbs	5.28 kg
Ex de Surface Mount	12.47 lbs	5.66 kg

REPLACEMENT PARTS

Description	Part Number
Multi-Voltage G-GPA Speaker Kit (Includes PCBAs, Bracket, Driver, & Mounting Screws)	K859501403
Accessories	
E-Box Endcap with M20 Opening	K859500805-02
E-Box Endcap with M25 Opening	K859500805-01
E-Box Cover Assembly (Includes two terminal blocks, mounting plate, retention hardware)	K859501414
Adapter, M20 Male to 1/2" Female NPT	K231246A
Adapter, M20 Male to 3/4" Female NPT	K231247

HOW TO ORDER

G - SPA - MV - D - 25V

MODEL

TYPE

SPA Amplified Speaker

Indicate MV for D & T configurations
MV Multi-voltage

Select a voltage for E configurations

024 24VDC
120 120VAC
230 220-240VAC

CONFIGURATION

D Ex d Surface Mount
T Ex d U-Bracket Mount*
E Ex de Surface Mount

AUDIO INPUT

25V 25 Vrms
Blank 0.8/2.8 Vrms

*Field Installation Required
Reference Global Series accessory product page 160 for list of available accessories

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