

► Model G-SPA

# Global Series® Signaling Platform – Amplified Speaker



Ex d Surface Mount



Ex d Trunnion Mount



Ex de Surface Mount

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 available<sup>1</sup>
- 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, excludes increase safety versions (Ex de)
- Optional indicator rings are available in six colors: Black, Blue, Green, Magenta, Red and Yellow

| MODEL        | OPERATING VOLTAGE  | NOMINAL OPERATING CURRENT <sup>2</sup> | AUDIO LEVELS<br>LINE LEVEL/ECHO | DECIBELS <sup>4</sup> |     |
|--------------|--------------------|----------------------------------------|---------------------------------|-----------------------|-----|
|              |                    |                                        |                                 | 10'                   | 1 M |
| <b>G-SPA</b> | 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 |

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

<sup>2</sup> Operating current varies with frequency content and input power

<sup>3</sup> Ships with 2.8 Vrms selected; field switchable

<sup>4</sup> 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

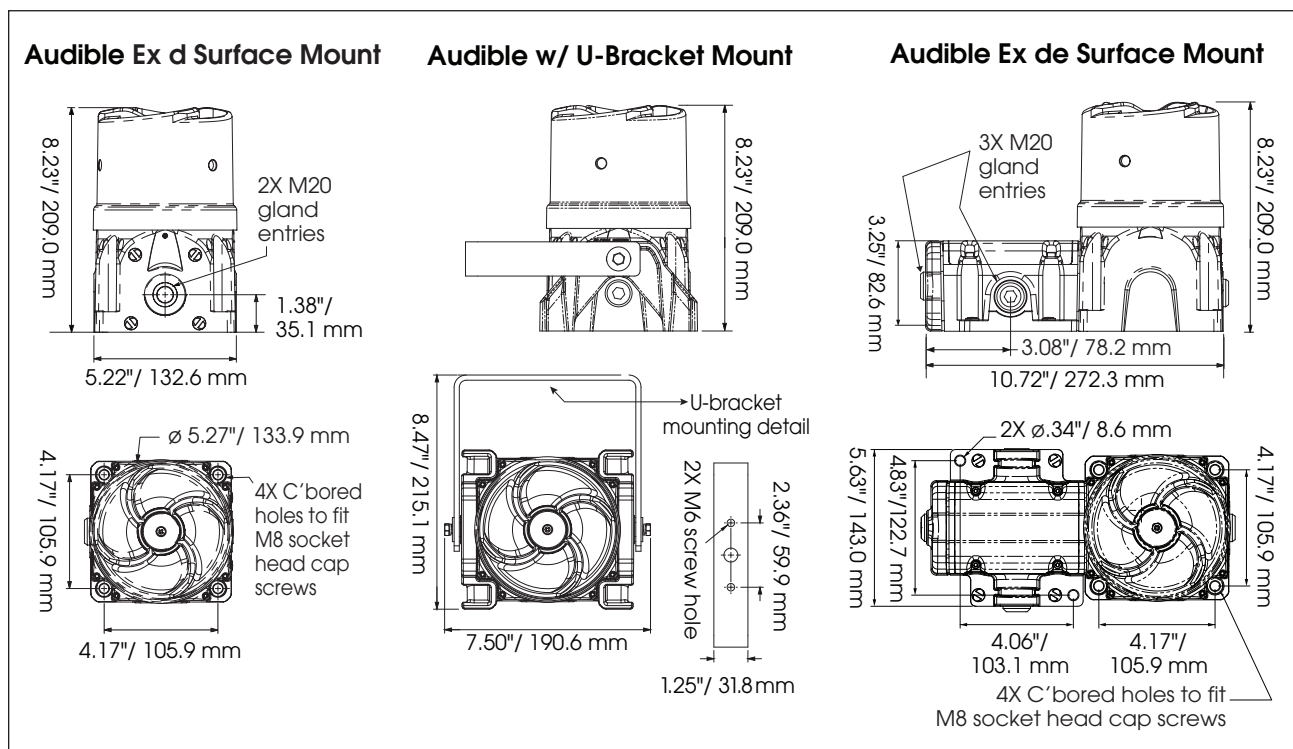
### ATEX/IECEx HAZARDOUS LOCATION RATING

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



Patent No. 9,886,832 B2

# Global Series® Signaling Platform – 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

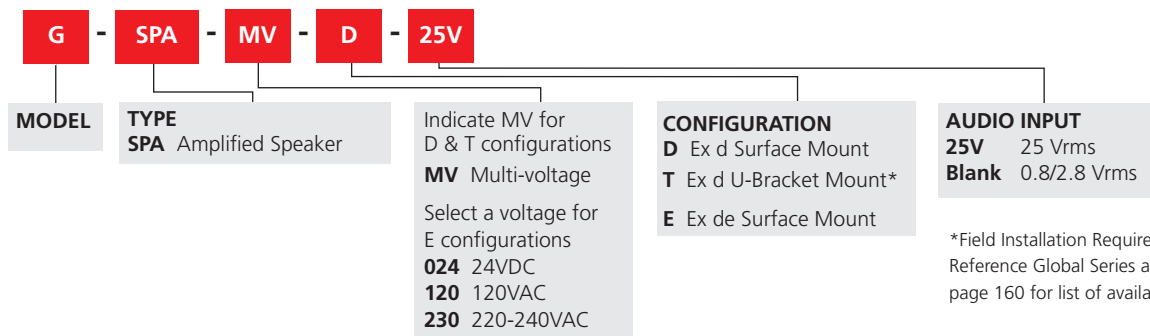
Net Product Weight

|                      |           |         |
|----------------------|-----------|---------|
| 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    |
| <b>Accessories</b>                                                                      |               |
| 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



#850000771 Rev. A0