FEDERAL SIGNAL



Ex d Surface Mount | Ex d Trunnion Mount | Ex de Surface Mount

Model G-SND

# Global Series®
# Hazardous Location Sounders

Federal Signal Global Series® Sounders are designed for rugged industrial environments and general alarm applications and are certified for gas Group IIC environments. All models are available with explosion-proof Ex d surface, Ex d trunnion, or Ex de surface mounts. Ex d surface and trunnion mount models come standard with (2) M20 entries. The increased safety Ex de surface mount models include separate terminal chambers for quick field termination or pass-through wiring and include (3) M20 entries in a standard configuration.

The Global Series Sounder offers the flexibility of being wired to perform two separate functions. Users can select a single tone via a rotary switch, which will sound the chosen tone once power is supplied. Alternatively, multiple tones can be selected remotely by choosing the appropriate combination of inputs[1]. This feature allows a unique sound to match a specific alarm condition or to escalate an alarm condition.

Global Series Sounders can be integrated with all other Global Series audible and visual products to create custom configurations tailored to specific needs. These custom configurations can be ordered directly from the factory.

## FEATURES

- Supports three operational voltages: 24 Vdc, 120 Vac, and 230 Vac
- Optional ratcheting stainless steel U-bracket trunnion mount with mounting hardware field installation required
- Models feature 15 selectable tones
- Non-metallic, Glass Reinforced Polyester (GRP) corrosion-resistant design, available in Red or Black
- Gain control
- Field-customizable legend plates available[2]
- Optional indicator rings are available in (6) colors: Black, Blue, Green, Magenta, Red, and Yellow
- (2) M20 entries standard on Ex d models, (3) M20 entries standard on Ex de models
- Type 4X, IP66 enclosure
- UL Fire Listed (Standard 15 W 24 Vdc operating voltage ONLY)
- UKEX certified

| MODEL | OPERATING VOLTAGE | NOMINAL OPERATING CURRENT[3] | IN-RUSH[5] | DECIBELS[4] 10' | 1m |
|---|---|---|---|---|---|
| **G-SND 15 W** | 24 Vdc | 0.460 A | 2.5 A in-rush | 100 | 110 |
| | 120/230 Vac 50/60 Hz | 0.140/0.080 A | 0.425 A in-rush at 120 Vac | 100 | 110 |

[1] Refer to application guide for specific wiring details

[2] Recommended labels for optional legend plates: BRADY #B-855 Toughwash labels or ULINE #S-16643 weather resistant

[3] Operating current varies with frequency content and input power

[4] Measured using on-board tone 9 at nominal input voltage

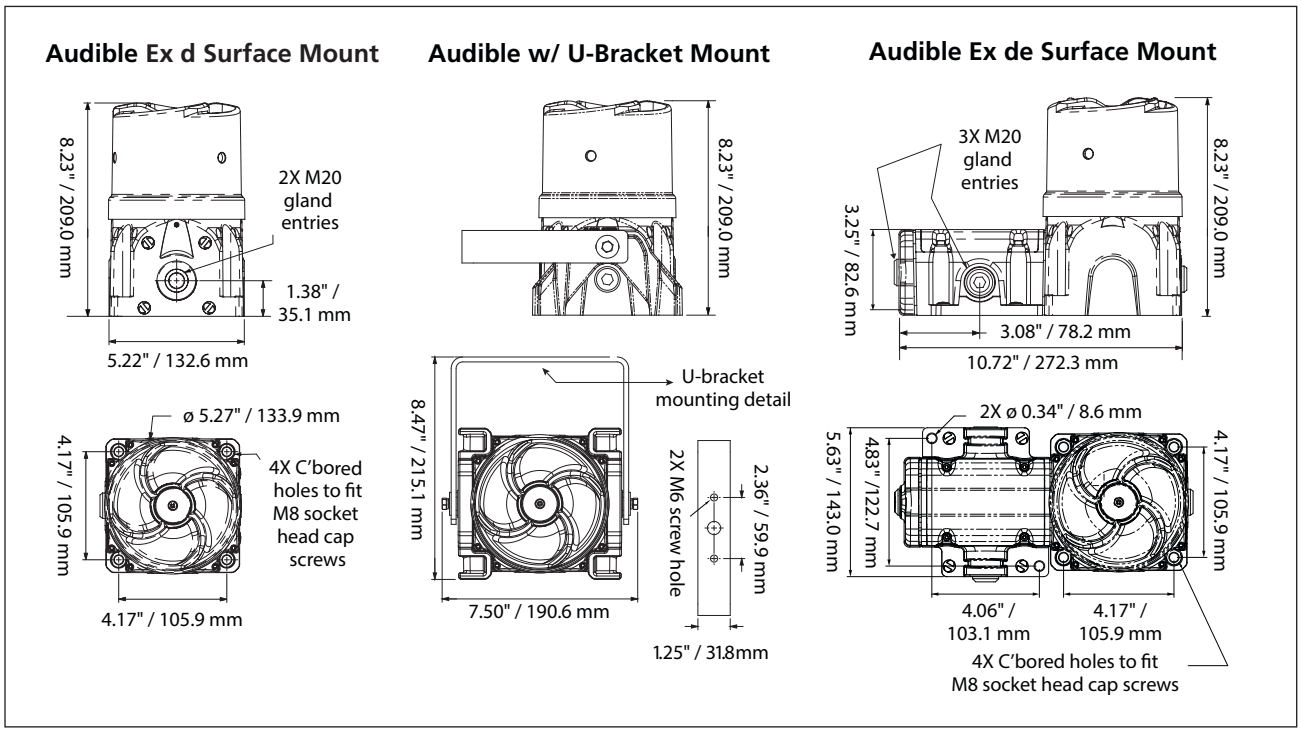
[5] RMS in-rush 16.7 ms duration

| **RATINGS AND CERTIFICATIONS:** | **15 W** |
|---|---|
| | |
| **ATEX/IECEx Certification Marking:** | Ex db IIB T5 Gb or Ex db e IIB T5 Gb @ 49°C |
| | Ex tb IIIC T100°C Db IP66 @ 49°C |
| | Ex db IIC T4 Gb or Ex db e IIC T4 Gb @ 70°C |
| | Ex tb IIIC T135°C Db IP66 @ 70°C |
| | ATEX: Baseefa15ATEX0155X |
| | IECEx: IECEx BAS 15.0104X |
| | |
| **UL and cUL Certification Marking:** | Class I, Division 2, Groups A,B,C,D T4 @ 70°C |
| | Class II, Division 2, Groups F,G T6 @ 70°C |
| | Class III T6 @ 70°C |
| | Certificate Number E12629 |
| | Class I, Zone 1 AEx db IIC T4 @ 70°C |
| | Class 1 Zone 1 AEx db eb IIC T4 @ 70°C |
| | Zone 21, AEx tb IIIC 135°C @ 70°C |
| | Certificate Number E492950 |

| **UL/cUL HAZARDOUS LOCATION RATING:** | **15 W** |
|---|---|
| TEMPERATURE CODE AT 70°C | |
| Class I, Division 2, Groups A, B, C, D | T4 |
| 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 | |
| | T5 (in IIB) |
| | T4 (in IIC) |
| TEMPERATURE CODE AT 70°C | |
| | T4 (in IIB) |
| | T4 (in IIC) |


Audible Ex d Surface Mount
8.23" / 209.0 mm
2X M20 gland entries
1.38" / 35.1 mm
5.22" / 132.6 mm
ø 5.27" / 133.9 mm
4.17" / 105.9 mm
4X C'bored holes to fit M8 socket head cap screws
4.17" / 105.9 mm
Audible w/ U-Bracket Mount
8.23" / 209.0 mm
U-bracket mounting detail
8.47" / 215.1 mm
2X M6 screw hole
2.36" / 59.9 mm
7.50" / 190.6 mm
1.25" / 31.8mm
Audible Ex de Surface Mount
3X M20 gland entries
8.23" / 209.0 mm
3.25" / 82.6 mm
3.08" / 78.2 mm
10.72" / 272.3 mm
2X ø 0.34" / 8.6 mm
5.63" / 143.0 mm
4.83" /122.7 mm
4.17" / 105.9 mm
4.06" / 103.1 mm
4.17" / 105.9 mm
4X C'bored holes to fit M8 socket head cap screws

# Global Series® Hazardous Location Sounders (G-SND)

## SPECIFICATIONS

| | |
|---|---|
| Operating Temperature: | -67° to 158°F (-55° to 70°C) |
| Enclosure Material: | Glass Reinforced Polycarbonate |
| External Fasteners: | 316 stainless steel M8 socket head cap screws (4) for base module |
| Terminals: | 4 mm² (12 AWG) Max |
| | (3 in, 3 out with 4-tone selection terminals & select line) |
| | Ex d: 11-way block |
| | 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 |
| Net Product Weight: | |
| Ex d Surface Mount: | 9.61 lb (4.36 kg) |
| Ex d U-Bracket Mount: | 11.59 lb (5.26 kg) |
| Ex de Surface Mount: | 12.43 lb (5.64 kg) |

## ACCESSORIES

| Description | Part Number |
|---|---|
| E-Box Endcap with M20 Opening | **K859500805-02** |
| E-Box Endcap with M25 Opening | **K859500805-01** |
| E-Box Cover Assembly (Includes (2) terminal blocks, mounting plate, retention hardware) | **K859501414** |
| Adapter, M20 Male to 1/2-inch Female NPT | **K231246A** |
| Adapter, M20 Male to 3/4-inch Female NPT | **K231247** |
| Wall Mount Bracket | **G-KIT-WBKT** |

## REPLACEMENT PART

| Description | Part Number |
|---|---|
| Multi-voltage G-SND Sounder Kit (Includes PCBAs, Bracket, Driver, & Mounting Screws) | **K859501404** |

## HOW TO ORDER

**G** - **SND** - **MV** - **D** - [ ] - [ ]

**MODEL**

**TYPE**
**SND** Sounder

Indicate MV for D & T configurations
**MV** Multi-voltage

Select a voltage for E configurations
**024** 24 Vdc
**120** 120 Vac
**230** 220-240 Vac

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

**RATED POWER**
**BLANK** 15 W

**BODY COLOR**
**BLANK** Black
**R** Red

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