FEDERAL SIGNAL

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ASSEMBLED IN THE USA

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FEDERAL SIGNAL

EXPLOSION-PROOF AND FLAMEPROOF

AUDIBLE AND VISUAL SIGNALING DEVICES





SIGNALING DEVICE PRODUCT CATEGORIES

VISUAL SIGNALS

Critical warning lights for multiple applications and extreme environments. Our products include flashing, steady state indicators, and rotating lights. Visual signals can be used for process control, plant safety, or fire alarm and emergency evacuation.

INTERCOMS

Two-way modular communication with custom system design and easy expansion. Available in wall-mount, safe area, and hazardous location.

AUDIBLE SIGNALS

Industrial audible signals for fire alarm, fire and gas detection systems, and other essential and diverse applications. Federal Signal's offering includes sirens, sounders, speakers, horns, bells, and much more.

TELEPHONY

Industrial telecommunication devices, IP and analog, suitable for safe area, watertight, and hazardous environments, including flameproof models.

PUBLIC ADDRESS

High performance standalone solutions or facility wide public address systems. High-powered audio amplifiers, tone generators, pre-recorded voice messaging, and high-quality speakers accommodate any office, industrial, or hazardous location.

INITIATING DEVICES

Highly visible push buttons, break glass, and pull stations designed to minimize installation expense, discourage tampering, and withstand hazardous environments.

GLOBAL SERIES®
MODULAR SIGNAL CONFIGURATION

Federal Signal G-MSC (Global Series® Modular Signal Configuration) is a factory-assembled, flameproof signaling platform for industrial hazardous locations.





Why Specify G-MSC?

- **Modular, Engineered-to-Order –** Every project is unique. Configure 2–6 Global Series® devices—LED, strobe, sounder, loudspeaker, and amplified speaker—into a single signaling solution tailored to your application.
- **Simplified Compliance & Installation-** Time and labor matter. Factory-assembled fixtures reduce on-site wiring, simplify installation, and streamline approvals to help keep projects on schedule and on budget.
- **Global Certifications -** Standards do not stop at borders. G-MSC is designed for worldwide compliance, making it easier to standardize your signaling products across multiple sites and regions.

Specifier Note:

Often grouped with explosion-proof devices, G-MSC is certified flameproof under IECEx, ATEX, and UL-classified hazardous locations standards.

Always confirm suitability with the Authority Having Jurisdiction (AHJ).



TELEPHONY

Federal Signal industrial telephony refers to the use of telephones in industrial settings, primarily for communication purposes. The VoIP (Voice over Internet Protocol) industrial telephones are becoming increasingly popular due to their cost-effectiveness, flexibility, and ease of use compared to traditional analog industrial telephones. VoIP industrial telephones offer additional software features such as self-monitoring and fault check functions, remote management, and lower installation and operating costs.



FT SERIES

	FT400A-A
TYPE	Analog
KEYPAD	✓
VOLUME CONTROL HANDSET	✓
CABLE ENTRY	(2) M20 and (1) M12 gland entries
MOUNTING TYPE	Desk or Wall
MOUNTING PLATE	IP66
NEC RATINGS	Zone 1, 21
AGENCIES	ATEX, IECEx

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.



EXPLOSION-PROOF AREAS

Class I, Division 1, Class I, Zone 1 (Class II, Division 1, Zone 20, Zone 21, Class III, Division 1)

An explosion-proof area is a space where hazardous gases, vapors, dust, or fibers/flyings are present frequently or in large enough quantities that the risk of ignition is high. In these environments, electrical equipment must be specially designed to contain any internal explosion, preventing it from igniting the surrounding atmosphere. Certified explosion-proof enclosures ensure that sparks, flames, or heat does not propagate outside the device, reducing the risk of a larger fire or explosion.

COMMON EXAMPLES INCLUDE:

- Aircraft fueling stations
- Aerospace manufacturing
- Agricultural facilities
- Battery manufacturing
- Cement manufacturing
- Explosive material manufacturing
- Gas storage and pumping stations
- Marine fueling stations
- Mining facilities
- Natural gas processing plants
- Power plants
- Paint spray booths and mixing rooms
- Petrochemical refineries
- Pulp and paper mills
- Grain Elevators

Explosion-proof areas must follow strict rules from OSHA (Occupational Safety and Health Administration) and the NEC/CEC (National Electrical Code / Canadian Electrical Code).

Compliance with NEC/CEC guidelines and UL product safety standards helps organizations meet OSHA's workplace safety standards, promoting a safer work environment.

OSHA sets and enforces safety standards to protect workers from hazards, including those related to electrical safety.

OSHA Standard 1910.307: Hazardous (Classified) Location

Article 1910.307 covers the requirements for electric equipment and wiring in hazardous locations. Each room, section, or area should be considered individually in determining its classification.



NEC/CEC

NEC/CEC provides detailed regulations for safe electrical design, installation, and inspection. The NEC defines hazardous and explosion-proof environments in two classification systems.

1) NEC Article 500/CEC Section 18

NEC Article 500/CEC Section 18 categorizes hazardous and explosion-proof environments into Classes, Divisions, and Groups.

2) NEC Articles 505, 506/CEC Section 18

NEC Article 505/CEC Section 18 classifies locations with flammable gases and vapors or liquids into Zones and Gas Groups, and Article 506 classifies locations with combustible dusts or ignitable flyings/fibers into Zones and Groups.

NEC Article 500/CEC Section 18	
CLASS	
Class I	Flammable vapors and gases may be present/can exist
Class II	Combustible dust may be found
Class III	Ignitable fibers/flyings may be present
DIVISION: Area in which ignitable concentrations of hazards	
Division 1	Can exist under normal operating conditions
Division 2	Are not likely to exist under normal operating conditions

NEC Articles 505, 506/CEC Section 18	
ZONE: Area where ignitable concentrations of flammable gases, vapors, or liquids are	
Zone 0	Present continuously or for long periods of time under normal operating conditions
Zone 1	Likely to exist under normal operating conditions
Zone 2	Not likely to exist under normal operating conditions
Area where ignitable concentrations of combustible dust or ignitable fibers/flyings are	
Zone 20	Present continuously or for long periods of time under normal operating conditions
Zone 21	Likely to exist under normal operating conditions
Zone 22	Not likely to exist under normal operating conditions

Built to perform when seconds matter, Federal Signal initiating devices give workers a fast, unmistakable way to activate alarms and safety systems at the source of an incident. Initiating devices serve as the critical first step, providing the manual control point that starts the chain of protection. With durable construction for hazardous environments and designs that discourage tampering, they help facilities protect people, equipment, and operations with confidence.

	 EXPLOSION-PROOF FIRE ALARM PULL STATION	 FLAMEPROOF AND HAZARDOUS LOCATION BREAK GLASS AND PUSH BUTTON CALL POINTS		 FSF SERIES
	MPEX	**CP-PB**	**CP-BG**	**FSF101-EXP**
SWITCH ELECTRICAL RATING	125 Vdc, 1.1 A, 240 Vac, 3 A	48 Vdc, 3 A Max	48 Vdc, 3 A Max	125 Vac, 10 A, 125 Vdc, 0.1 A
ACTIVATION	Pull	Push Button	Break Glass	Pull
MOUNTING TYPE	Surface	Surface	Surface	Surface
NEMA/IP RATINGS	NEMA 7 for Groups C and D, NEMA 9 for Groups E, F, and G	Type 4X, IP66 Enclosure, IP69K	Type 4X, IP66 Enclosure, IP69K	Type 4X (Indoor/Outdoor)
NEC RATINGS	CI D1, CII D1, CIII	C1 D2, C1 Zone 1, Zone 21	C1 D2, C1 Zone 1, Zone 22	Class I, Groups B, C, and D Class II, Groups E, F, and G Class III
AGENCIES	UL/cUL, UL/ULC Fire, CSFM	UL/cUL, UL/ULC Fire, ATEX/IECEx, CE/UKCA, SIL2	UL/cUL, UL/ULC Fire, EN54-11, ATEX/IECEx, CE/UKCA, SIL2	UL/cUL, UL/ULC Fire

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.

PUBLIC ADDRESS

Federal Signal is a well-known manufacturer of public address speakers that are designed for various applications, including emergency notification systems, public safety, industrial settings, and commercial environments. These speakers are engineered to deliver clear and intelligible audio messages over long distances, ensuring effective communication in critical situations.



AUDIOMASTER® PUBLIC ADDRESS EXPLOSION-PROOF SPEAKERS

	AM300X	AM302X
RATED POWER	15 W	30 W
EXTERNAL AUDIO SOURCE	25/70 V_{rms} Volume Taps: 15 W, 7 W, 2 W, 1 W	25/70 V_{rms} Volume Taps: 30 W, 15 W, 8 W
dBA SPL AT 10'	106	112
APPLICATIONS	Voice communication and reproduced electronically generated warning tones	Voice communication and reproduced electronically generated warning tones
MOUNTING TYPE	Surface	Surface
NEMA/IP RATINGS	Type 4X, IP65	Type 4X, IP65
NEC RATINGS	CI D1, CI D2, CII D2, CIII	CI D1, CI D2, CII D2, CIII
AGENCIES	UL/cUL, UL Fire, CSFM	UL/cUL

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.
AM300X and AM302X available in Grey or Red body color.



Categories for EXPLOSION-PROOF AREAS

Hazardous and explosion-proof environments are categorized into **gas, vapor, and dust groups** based on the type and ignition risk of flammable substances. This classification helps ensure the selection of appropriate safety measures and equipment. Additionally, T-codes, ranging from T1 to T6, indicate the maximum surface temperature of electrical equipment, preventing ignition of these flammable materials.

Gas, Vapor, and Dust Groups

NEC ARTICLE 500/CEC SECTION 18	NEC ARTICLE 505, 506/CEC SECTION 18
Class I, Division 1 and 2	**Zone 0, 1, and 2**
A (Acetylene)	IIC (Acetylene and Hydrogen)
B (Hydrogen)	IIB + H2 (Hydrogen)
C (Ethylene)	IIB (Ethylene)
D (Propane)	IIA (Propane)
Class II, Division 1 and 2	**Zone 20, 21, 22**
E (Combustible metal dust – Division 1 only)	IIIC (Combustible metals, dust, and fibers/flyings – Zone 20 and 21 only)
F (Combustible carbonaceous dust)	IIIB (Combustible dusts other than metal)
G (Combustible non-conductive dust)	IIIB (Combustible dusts other than metal)
Class III	IIIA (Combustible or ignitable fibers/flyings other than metal)

T-Codes

Temperature Class	Maximum permissible surface temperature of equipment in °C
T6	85°C
T5	100°C
T4	135°C
T3	200°C
T2	300°C
T1	450°C

Before you choose or install any Federal Signal product, the area should be officially classified by a qualified professional. Federal Signal does not classify locations, but we strongly recommend getting this done. That's the only way to make sure you are choosing equipment that will be safe and compliant for your specific environment.

For more information, refer to the following resources:

National Electrical Code (NEC), Canadian Electrical Code (CEC), International Electrotechnical Commission (IEC), Occupational Safety and Health Administration (OSHA), Underwriters Laboratories (UL), NFPA 70, NFPA 497, and NFPA 499.

VISUAL SIGNALS

Visual signals are crucial for alerting, warning, and communicating important messages in industrial settings to ensure safety and efficiency. Federal Signal offers a wide range of industrial visual signals designed to meet the diverse needs of different industries.



EXPLOSION-PROOF LIGHTS

	24XST	27XST	27XL	121X
FEATURES	SUPERVISED, HEARING IMPAIRED, LOW IN-RUSH	SUPERVISED, LOW IN-RUSH	LOW IN-RUSH	
VOLTAGE	24 Vdc	24 Vdc, 120 Vac, 240 Vac	24 Vac/dc, 120-240 Vac	24 Vdc, 120 Vac
LIGHT SOURCE	Strobe	Strobe	LED	LED
LIGHT PATTERN	60 FPM, 65-75 FPM	80 FPM	60 FPM, Steady	60 RPM
LENS COLORS				
MOUNTING TYPE	¾-inch NPT pendant, ceiling and wall mount options (required, sold separately)	¾-inch NPT pendant, ceiling and wall mount options (required, sold separately)	¾-inch NPT pendant, ceiling and wall mount options (required, sold separately)	¾-inch NPT pendant, ceiling and wall mount options (required, sold separately)
NEMA/IP RATINGS	Type 4X, IP66, IP69K	Type 4X, IP66, IP69K	Type 4X, IP66, IP69K	Type 4X, IP66, IP69K
NEC AND ZONE RATINGS	CI D1, CI D2, CII D1, CIII	CI D1, CI D2, CII D1, CIII	CI D1, CI D2, CII D1, CIII	CI D1, CII D1, CIII
AGENCIES	UL/cUL, UL/ULC Fire, CSFM, Marine	UL/cUL, CSFM, Marine	UL/cUL, Marine	UL/cUL, Marine

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.

AUDIBLE SIGNALS

SELECTONE®



UTM
Plug-in 32-tone module



Tone modules are sold separately

TM33-SD
Custom tone module



SELECTONE EXPLOSION-PROOF AMPLIFIED SPEAKERS

300X	302X	304X	314X
24 Vac/dc, 120-240 Vac	24 Vac/dc, 120-240 Vac	24 Vdc	24 Vdc
15 W	30 W	15 W	30 W
0-110	0-114	0-108	0-112
Requires tone module	Requires tone module	Requires tone module	Requires tone module
Surface	Surface	Surface	Surface
Type 4X, IP66	Type 4X, IP66	Type 4X, IP66	Type 4X, IP66
CI D1, CI D2, CII D2	CI D1, CI D2, CII D2	CI D1, CI D2, CII D2, CIII	CI D1, CI D2, CII D2, CIII
UL/cUL, CSFM	UL/cUL, CSFM	UL/cUL, UL/ULC Fire, CSFM	UL/cUL, UL/ULC Fire, CSFM



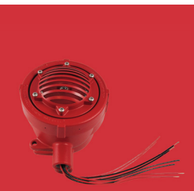
EXPLOSION-PROOF AMPLIFIED SPEAKERS

ASHX	ASUX
24 Vdc	24 Vdc
15 W	30 W
110	114
Requires tone module	Requires tone module
Surface	Surface
Type 4X, IP66	Type 4X, IP66
CI D1, CI D2, CII D2, CIII	CI D1, CI D2, CII D2, CIII
UL/cUL, UL Fire, CSFM	UL/cUL, UL Fire, CSFM

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.
* With Audio Connector Kits, sold separately, SelecTone powered loudspeakers interface to external 1 V, 2.8 V, 10 V, 25 V, and 70 V audio sources. Reference SelecTone Connector Kits or web pages for more information.

AUDIBLE SIGNALS

In industrial settings, audible signals play a crucial role in communicating important information to workers and enhancing overall safety. These signals are designed to alert individuals to specific events, hazards, or actions that require attention.







	EXPLOSION-PROOF VIBRATING HORN			EXPLOSION-PROOF REMOTELY SELECTABLE ELECTRONIC SIREN
	FHEX	31X	41X	SSTX3-MV
VOLTAGE	24 Vdc (diode polarized)	120 Vac, 240 Vac	24 Vdc	24 Vdc, 120 Vac, 240 Vac
RATED POWER	NA	NA	NA	NA
SPL @ 10' dBA	99	100	100	101-108
TONES	Horn	Horn	Horn	Wail, Yelp, & Horn
MOUNTING TYPE	Surface	Surface	Surface	Surface
NEMA/IP RATINGS	NA	Type 3R	Type 3R	Type 4X, IP66
NEC AND ZONE RATINGS	CI D1, CII D1, CIII	CI D1, CII D1, CIII	CI D1, CII D1, CIII	CI D1, CI D2, CII D2, CIII
AGENCIES	UL/cUL, CSFM	UL/cUL, CSA	UL/cUL, CSA	UL/cUL

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.

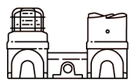
VISUAL SIGNALS





	FSEX			XEN1	XEN4
	SUPERVISED	HEARING IMPAIRED	LOW IN-RUSH		
	24 Vdc			24 Vdc, 48 Vdc, 110 Vdc, 110 Vac, 240 Vac	24 Vdc, 48 Vdc, 110 Vdc, 110 Vac, 240 Vac
	Strobe			Strobe	Strobe
	60 FPM, 80 FPM			80 FPM	80 FPM
	¾-inch NPT pendant, ceiling and wall mount options (required, sold separately)			Surface	Surface
	Type 4X, IP66, IP69K			IP66	IP66
	CI D1, CI D2, CII, CIII			Zone 1, 2, 21, 22	Zone 1, 2, 21, 22
	UL/cUL, CSFM, Marine			ATEX, IECEx, CE/UKCA	ATEX, IECEx, CE/UKCA

Note: Certifications and features are SKU specific. Please reference web pages and data sheets for more information.



Global Series®
Meeting stringent certifications, Global Series® is an innovative next generation product line of Glass Reinforced Polyester (GRP) signals that is modular, aesthetically appealing, and lightweight in design.



G-LED available in High or Low Profile Lens



G-STR available in only High Profile Lens

GLOBAL SERIES (FLAMEPROOF AND HAZARDOUS LOCATION)

	G-LED	G-STR (15J & 21J VERSIONS)
VOLTAGE	24 Vdc, 120-240 Vac	24 Vdc, 120 Vac, 220-240 Vac
LIGHT SOURCE	LED	Strobe
LIGHT PATTERN	8 Flash patterns: Steady, Blink, Swell, Strobe, Rotate (CW), Rotate (CCW), Waggle, Pinwheel	Vdc: 60 FPM, Vac: 60-90 FPM
LENS COLORS	● ● ○ ● ● ● ●	● ● ○ ● ● ● ●
MOUNTING TYPE	Surface, U-bracket or Ex de mount	Surface, U-bracket or Ex de mount
NEMA/ IP RATINGS	Type 4X, IP66 Enclosure, IP67, IP69K	Type 4X, IP66 Enclosure, IP67, IP69K
NEC AND ZONE RATINGS	CI D2, CII D2, CIII CI, Zone 1, Zone 21	CI D2, CII D2, CIII CI, Zone 1, Zone 21
AGENCIES	ABS, ATEX, CE, CSFM, EAC, GOST, IECEx, INMETRO, Marine, UL/cUL	ABS, ATEX, CE, CSFM, EAC, GOST, IECEx, INMETRO, Marine, UL/cUL, UL Fire

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.
Available in Red or Black body color.



Surface mount U-bracket Ex de mount

GLOBAL SERIES (FLAMEPROOF AND HAZARDOUS LOCATION)

	G-SND SOUNDER AMPLIFIED SPEAKER	G-SPA AMPLIFIED SPEAKER	G-SPK LOUDSPEAKER
VOLTAGE	24 Vdc, 120 Vac, 230 Vac	24 Vdc, 120 Vac, 230 Vac	NA
RATED POWER	15 W	15 W	15 W (70 or 100 V_{rms})
SPL @ 10' dBA	100	100	100
TONES	15 selectable tones	NA	NA
MOUNTING TYPE	Surface, U-bracket or Ex de mount	Surface, U-bracket or Ex de mount	Surface, U-bracket or Ex de mount
NEMA/ IP RATINGS	Type 4X, IP66 Enclosure	Type 4X, IP66 Enclosure	Type 4X, IP66 Enclosure
NEC AND ZONE RATINGS	CI D2, CII D2, CIII, CI, Zone 1, Zone 21	CI D2, CII D2, CIII, CI, Zone 1, Zone 21	CI D2, CII D2, CIII, CI, Zone 1, Zone 21
AGENCIES	ABS, ATEX, CE, CSFM, EAC, GOST, IECEx, INMETRO, UL/cUL, UL Fire	ABS, ATEX, CE, CSFM, EAC, GOST, IECEx, INMETRO, UL/cUL	ABS, ATEX, CE, CSFM, EAC, GOST, IECEx, INMETRO, UL/cUL

Note: Certifications and features are SKU specific. Please reference webpages and data sheets for more information.
Available in Red or Black body color.