FEDERAL SIGNAL

2645 Federal Signal Drive
University Park, IL 60484
Tel: +1 708.534.4756
signalsupport@fedsig.com
website: www.fedsig.com

© 2025-2026 Federal Signal Corporation. S105 | 0926

FEDERAL SIGNAL

Fire Alarm Notification Devices



FEDERAL SIGNAL



WE PROTECT

100+ YEARS

Federal Signal is recognized as one of the industry's leading suppliers of safety and security products since 1901. Today, our team remains committed to the demand for value-added products, incorporating innovative engineering with the intent to offer our customers cost-effective product solutions.

Federal Signal products come with our commitment to exceptional customer service and technical support. Working closely with customers globally, our customer support, engineers, and technicians can provide expertise to assist with any application.

CERTIFICATIONS

Our products have been designed to meet or exceed the uncompromising standards of UL, CSA, CSFM, IECEx, and other global certifications. And with our ISO 9001 Certification, Federal Signal demonstrates its on-going commitment to quality. Achieving certification is just the beginning. Federal Signal hazardous location products routinely prove themselves, performing reliably in even the toughest operating environments.

Model FB24ST

FIREBALL® SUPERVISED STROBE LIGHT

- Available in 24 Vdc
- Four wires and supervisory diode
- Five dome colors: Amber, Blue, Clear, Green and Red
- Easy twist-off dome for re-lamping
- 10,000-hour, strobe tube
- Integrated 1/2-inch NPT pipe and surface mount
- Black epoxy coating for superior corrosion resistance
- 1,000,000 peak candela (300 effective candela)
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- UL and cUL Listed



Model FHEX

EXPLOSION-PROOF VIBRATING HORN

- 24 Vdc
- Produces 99 dBa @ 10' (109 dBa @ 1 m)
- Supervisory diode and four wires
- Cast aluminum housings
- Duty cycle 5 minutes on – 5 minutes off
- CSFM Approved
- UL and cUL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G; Class III



Model 154XST

HAZARDOUS LOCATION SUPERVISED STROBE LIGHT

- Available in 24 Vdc
- Four wires and supervisory diode
- Five dome colors: Amber, Blue, Clear, Green and Red
- 10,000-hour, high-intensity strobe
- 80 flashes per minute
- 520,000 peak candela (165 effective candela)
- 3/4-inch NPT pipe mount or surface mount options
- Dome guard included
- Conformal coated PCB
- Indoor/outdoor use
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- CSFM Approved
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III



Shown as a surface mount; also available as pipe mount



Model 224XST

ELECTRARAY® SUPERVISED HAZARDOUS LOCATION STROBE LIGHT

- 24 Vdc
- Four wires and supervisory diode
- Integrated in-rush limiting circuit
- Six lens colors: Amber, Blue, Clear, Green, Magenta and Red
- 10,000-hour, high-intensity strobe tube
- 1/2-inch NPT pipe mount
- Aluminum base with black polyurethane coating for superior corrosion resistance
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- CSA Certified
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; and Class III





Fire Signaling Approval Types

United States - Installed in accordance with NFPA72 - National Fire Alarm Code

Visual Fire Alarm Signaling:

Public Mode – UL1638 Mode of operation intended to notify occupants or inhabitants in the area protected by the fire-alarm and signaling system.

- Visual-signal appliances investigated for fire-protective signaling services.
- Used in conjunction with certified compatible fire alarm control units, alarm-initiating devices. Interconnection, use and installation requirements of the products are intended to be in accordance with ANSI/NFPA 72, "National Fire Alarm and Signaling Code."
- Visual-signal appliances have been investigated for light output measured at a distance of 10 ft. on-axis. Units are marked with a range of light output and flash rate.

Private Mode - UL1638 Mode of operation intended to notify only those persons directly concerned with the implementation and direction of emergency action initiation and procedure in the area protected by the fire-alarm and signaling.

- UL 1638 Visual-signal appliances for Fire-protective Signaling Systems marked as “Visual Signaling Appliance.”
- Visual-signal appliances and accessories investigated for fire-protective signaling applications, and are intended for use with certified compatible fire alarm control units or control unit accessories.
- Visual-signal appliances have been investigated for light output measured at a distance of 10 ft. on-axis. Units are marked with a range of light output and flash rate.

Audible Fire Alarm Signaling

Electronic Horns and Sounders, UL 464 — Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories. Marked as “Audible Signal Appliance.”

- Audible-signal appliances intended for fire alarm service, public mode, are rated a minimum 75 dB(A) at 10".

Speakers and Amplifiers for Fire-protective Signaling Systems — speakers, amplifiers and their accessories investigated for use in fire alarm and/or emergency communication systems.

- Speakers - UL1480 “Speakers for Fire Alarm and Signaling Systems, Including Accessories.”
- Speakers have been investigated for audible output of 75 dBA or greater measured at 10 ft, when powered from a source of pink noise over a range of 400 - 4000 Hz. The units are marked with a minimum audibility rating.

Canada - Installed in accordance with CAN/ULC S524 — Standard for Installation of Fire Alarm Systems

Visual Fire Alarm Signaling

- CAN/ULC 526 Public and Private Mode "Visible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories”
- Visual-signal appliances have been investigated for light output measured at a distance of 10 ft. on-axis. Units are marked with a range of light output and flash rate.

Audible Fire Alarm Signaling

Electronic Horns and Sounders, CAN/ULC 525 — Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.

- Audible-signal appliances intended for fire alarm service, public mode, are rated a minimum 75 dB(A) at 10". Marked as “Audible Signal Appliance for Fire Alarm Service.“

Speakers, CAN/ULC 541 — Speakers for Fire Alarm Systems, Including Accessories.

- Speakers and accessories investigated for use in fire alarm and/or emergency communication systems.
- Speakers have been investigated for audible output of 85 dBA or greater measured at 3 m, when powered from a source of pink noise over a range of 600 - 4000 Hz. Units are marked with a minimum audibility rating.

NEMA Ratings

National Electrical Manufacturers Association

Type Indicates

1 **General Purpose, Indoor** — To prevent accidental contact of personnel with the enclosed equipment in areas where unusual service conditions do not exist. Provides protection against falling dirt.

2 **Drip-Proof, Indoor** — Similar to Type 1, but also protects against falling non-corrosive liquids and falling dirt. Drainage provisions provided.

3 **Dust-Tight, Rain-Tight, Sleet-Resistant, Outdoor** — Protected against windblown dust and water.

3R **Rainproof, Sleet-Resistant, Outdoor** — Protected against rain.

3S **Dust-Tight, Rain-Tight and Sleet-Proof, Outdoor** — Protected against windblown dust and water, remains operable when covered by external ice or sleet. (Not protected against internal icing.)

4 **Water-Tight and Dust-Tight, Indoor and Outdoor** — Protected against windblown dust and rain, splashing water, seepage water, falling or hose-directed water, and severe external condensation. Mountings are external to cavity.

4X **Water-Tight, Dust-Tight, Indoor and Outdoor** — Same as Type 4 but also corrosion-resistant. Passes 200-hr. salt spray (fog) test.

IP Ratings

Ingress Protection

Prefix	First #	Solids
IP	0	No Protection
IP	1	Over 50 mm
IP	2	Over 12 mm
IP	3	Over 2.5 mm
IP	4	Over 1.0 mm
IP	5	Dust, limited ingress from all directions
IP	6	Total protection against dust

Prefix	Second #	Water
IP	0	No Protection
IP	1	Dripping
IP	2	Dripping when tilted up to 15°
IP	3	Spraying when tilted up to 60°
IP	4	Splashing
IP	5	Low pressure jets
IP	6	Strong jets
IP	7	Temporary immersion
IP	8	Prolonged immersion
IP	9K	Close range high pressure and temperature spray down

NEC 500 and Canada (CEC) Ratings for Federal Signal UL/ULC Fire Rated and Fire System Compatible Products

CLASS	GROUP	ATOMOSPHERE CONTAINING	DIVISION 1	DIVISION 2
I	A	Acetylene		24XST, 24XSTHI, 27XST, FSEX, FSEX-HI, 154XST, 154XSTHI, 224XST, 224XST-HI, DRTX, AM15XD2, AM300X, AM302X, 304X, 314X, FHEX, ASHX, ASUX, 304GCX, 314GCX, AM300GCX, AM302GCX, ASHH, ASUH, 450EWBX, G-STR, G-SND
I	B	Butadiene, Ethylene Oxides, Hydrogen, manufactured gases containing more than 30% Hydrogen (by volume), or Propylene Oxide	304X, 314X, AM300X, AM302X, ASHX, ASUX, FHEX, FSF101-EXP	24XST, 24XSTHI, 27XST, FSEX, FSEX-HI, 154XST, 154XSTHI, 224XST, 224XST-HI, DRTX, AM15XD2, AM300X, AM302X, 304X, 314X, FHEX, ASHX, ASUX, 304GCX, 314GCX, AM300GCX, AM302GCX, ASHH, 450EWBX, G-STR, G-SND
I	C	Acetaldehyde, Cyclopropane, Diethyl Ether, Ethylene or Unsymmetrical Dimethyl Hydrazine (UDMH)	27XST, 24XSTHI, 27XST, 304X, 314X, AM300X, ASHX, ASUX, AM302X, FSEX, FSEX-HI, FHEX, MPEX, FSF101-EXP	24XST, 24XSTHI, 27XST, FSEX, FSEX-HI, 154XST, 154XSTHI, 224XST, 224XST-HI, AM300X, AM302X, 304X, 314X, FHEX, DRTX, ASHX, ASUX, 304GCX, 314GCX, AM300GCX, AM302GCX, ASHH, ASUH, 450EWBX, G-STR, G-SND
I	D	Acetone, Acrylonitrile, Ammonia, Benzene, Butane Butanol (Butyl Alcohol), Butanol (Secondary Butyl Alcohol), N-Butyl Acetate, Isobutyl Acetate, Ethane, Ethanol (Ethyl Alcohol),E Ethylene Dichloride, Gasoline, Heptanes, Hexanes, Isoprene Methane (Natural Gas), Methanol Ethyl Ketone, Methyl Isobutyl Ketone, Methyl Propanol (Isobutyl Alcohol), Methyl Propanol (Certiary Butyl Alcohol), Petroleum Naphtha, Octanes, Pentanes, Pentanol (Amyl Alcohol), Propane, Propanol (Propyl Alcohol), Propanol (Isopropyl Alcohol), Propylene, Styrene, Toluene, Vinyl Acetate, Vinyl Chloride or Xylenes	24XST, 24XSTHI, 27XST, 304X, 314X, AM300X, ASHX, ASUX, AM302X, FSEX, FSEX-HI, FHEX, MPEX, FSF101-EXP	24XST, 24XSTHI, 27XST, FSEX, FSEX-HI, 154XST, 154XSTHI, 224XST, 224XST-HI, AM300X, AM302X, 304X, 314X, FHEX, ASHX, ASUX, 304GCX, 314GCX, AM300GCX, AM302GCX, DRTX, ASHH, ASUH, 450EWBX, G-STR, G-SND
II	E	Metal Dust including Aluminum, Magnesium and their commercial alloys, and other metals of similar hazardous characteristics	24XST, 24XSTHI, 154XSTHI, 27XST, MPEX, 154XST, FSEX, FSEX-HI, FHEX, FSF101-EXP	
II	F	Carbon Black, Charcoal, Coal or Coke Dust	24XST, 24XSTHI, 154XSTHI, 27XST, MPEX, 154XST, FSEX, FSEX-HI, FHEX, FSF101-EXP	24XST, 24XSTHI, 27XST, FSEX, FSEX-HI, 154XST, 154XSTHI, 224XST, 224XST-HI, AM300X, AM302X, DRTX, 304X, 314X, FHEX, ASHX, ASUX, 304GCX, 314GCX, AM300GCX, AM302GCX, ASHH, ASUH, 450EWBX, G-STR, G-SND
II	G	Flour, Starch, Wood or Grain Dust	24XST, 24XSTHI, 154XSTHI, 27XST, MPEX, 154XST, FSEX, FSEX-HI, FHEX, FSF101-EXP	24XST, 24XSTHI, 27XST, FSEX, FSEX-HI, 154XST, 154XSTHI, 224XST, 224XST-HI, AM300X, AM302X, DRTX, 304X, 314X, FHEX, ASHX, ASUX, 304GCX, 314GCX, AM300GCX, AM302GCX, ASHH, ASUH, 450EWBX, G-STR, G-SND
III		All models approved for Class I and II are also approved for use in Class III		

Model FSEX

EXPLOSION-PROOF STROBE LIGHT

- Approved for mounting in any manner – including dome up
- Synchronize with SSM module
- Four lens colors: Amber, Blue, Clear and Red
- 10,000-hour, strobe tube
- 3/4-inch NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- CSFM Approved
- UL and cUL listed for Class I, Division 1, Groups C and D; Class I, Division 2, Groups A, B, C and D; Class II, Groups E, F and G; Class III

Shown with optional pendant mount.
Ceiling and wall mount options available.



Models 24XST and 27XST-024*-4-MOD

EXPLOSION-PROOF SUPERVISED STROBE LIGHT

- Approved for mounting in any manner – including dome up
- Available in 24 Vdc
- Six lens colors: Amber, Blue, Clear, Green, Magenta and Red
- 24XST models produce 60FPM; 27XST-024*-4-MOD models produce 80FPM
- 10,000-hour, strobe tube
- 3/4-inch NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- CSFM Approved
- UL and cUL Class I, Division 1, Groups C and D; Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III

Shown with optional pendant mount.
Ceiling and wall mount options available.



Models CP-BG and CP-PB

FLAMEPROOF AND HAZARDOUS LOCATION BREAK GLASS AND PUSH BUTTON CALL POINTS

- High visibility, antistatic GRP enclosure
- Optional lift flap for two-step operation prevents accidental activation
- 3 x M20 or 1/2-inch NPT entries: (2) top and (1) side entry with 180° rotatable mounting orientation
- Assembled with external 316 stainless steel hardware
- Single- and dual-switch activation
- Optional field-installed stainless steel faceplate labels and duty labels
- Optional module EOL resistors, series resistors, and supervisory diode
- Type 4X, IP66 enclosure
- IP69K compliant
- UL and ULC Fire Listed



Model MPEX

EXPLOSION-PROOF FIRE ALARM PULL STATION

- Contacts on the unit are rated 120 Vac, 60Hz at 6 A continuous
- Highly visible red enclosure
- Lift cover and pull down ring to activate
- (2) 3/4-inch conduit entries
- UL and cUL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class III
- NEMA 7 for Groups C and D and NEMA 9 for Groups E, F and G
- UL Fire Listed
- ULC Canadian Fire Listed



Models FSF101-EXP, FSF103-WP, and FSF102/FSF103

PULL STATIONS

- Contacts rated 10 amp at 120 Vac
- FSF103 dual action lift flap activation with lift flap
- FSF102 and FSF103 rated for Indoor use
- Lift cover and pull down ring to activate
- FSF101-EXP and FSF103-WP: (2) 3/4-inch conduit entries
- FSF101-EXP: UL and cUL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class III
- FSF101-EXP: NEMA 7 for Groups C and D and NEMA 9 for Groups E, F and G
- UL Fire Listed
- ULC Canadian Fire Listed



RANGE CERTIFICATIONS

Visual Signal

MODEL	TYPE	CERTIFICATIONS								OPTICAL OUTPUT	
		UL	ULC	PRIVATE MODE INCLUDED	CSFM	NEC LISTING	NEMA RATING	ENCLOSURE RATING	IP 69K RATED	UL 1638 cd ECP HEARING IMPAIRED (PUBLIC MODE)	ON-AXIS cd ECP (MEASURED)
24XSTHI	STROBE	■				CID1	4X	IP66	■	30	150
24XSTHI-CN	STROBE		■			CID1	4X	IP66	■	30	150
FSEX-HI	STROBE	■			■	CID1	4X	IP66	■	30	850
G-STR	STROBE	■	■	■	■	CID2	4X	IP67	■	200	500
154XSTHI	STROBE	■			■	CID2	4X	IP66	■	25	170
154XSTHI-024-CN	STROBE		■	■		CID2	4X	IP66	■	25	170
224XSTHI	STROBE	■			■	CID2	4X	IP66	■	15	240
DRT-AV-024C-HI DRTX-AV-024C-HI	LED	■	■	■		CID2	4X	IP66	■	15	200
FB24STHI	STROBE	■			■	ORDINARY LOCATION	4X	IP66	■	15	300
FB24STHI-024C-CN	STROBE		■			ORDINARY LOCATION	4X	IP66	■	15	300
FIRE SYSTEM COMPATIBLE											
FSEX-24PM	STROBE				■	CID1	4X	IP66	■	N/A	850
24XST	STROBE				■	CID1	4X	IP66	■	N/A	280
27XST	STROBE				■	CID1	4X	IP66	■	N/A	850
154XST	STROBE				■	CID2	4X	IP66	■	N/A	170
224XST	STROBE				■	CID2	4X	IP66	■	N/A	240
FB24ST	STROBE				■	ORDINARY LOCATION	4X	IP66	■	N/A	300

RANGE CERTIFICATIONS

Audible Signal

MODEL	TYPE	CERTIFICATIONS									APPLICATION		
		UL	ULC	CSFM	NEC LISTING	NEMA RATING	ENCLOSURE RATING	IP 69K RATED	dBa @ 10'	UL 464 OR UL 1480 dBA SPL @ 10'	TONE	VOICE	PUBLIC ADDRESS
304X/314X	AMPLIFIED SPEAKER	■		■	CID1	4X	IP66		108/112	91/97	■	■	■
304X-CN/ 314X-CN	AMPLIFIED SPEAKER		■		CID1	4X	IP66		108/112	91/97	■	■	■
ASHX/ASUX	AMPLIFIED SPEAKER	■		■	CID1	4X	IP66		110/114	91/97	■	■	■
AM300X/ AM300X-R	SPEAKER	■		■	CID1	4X	IP66		106	99			■
304GCX/ 314GCX	AMPLIFIED SPEAKER	■		■	CID2	4X	IP66	■	108/112	95/100	■	■	■
304GCX-CN/ 314GCX-CN	AMPLIFIED SPEAKER		■		CID2	4X	IP66	■	108/112	95/100	■	■	■
ASHH/ASUH	AMPLIFIED SPEAKER	■		■	CID2	4X	IP66	■	108/112	95/100	■	■	■
AM300GCX/ AM302GCX	SPEAKER	■	■	■	CID2	4X	IP66	■	110/114	102/105			■
G-SND	SOUNDER	■		■	CID2	4X	IP66		112	79	■		
450EWBX	HORN	■	■		CID2	4X	IP66	■	99	90	■		
304GC/ 314GC	AMPLIFIED SPEAKER	■		■	ORDINARY LOCATION	3R	IP54		108/112	95/100	■	■	■
ASHP/ASUP	AMPLIFIED SPEAKER	■		■	ORDINARY LOCATION	3R	IP54		108/112	95/100	■	■	■
AM300/ AM302	SPEAKER	■		■	ORDINARY LOCATION	3R	IP54		110/114	102/105			■
AM50	SPEAKER	■		■	ORDINARY LOCATION	3R	IP54		87	75			■
450E	HORN	■	■	■	ORDINARY LOCATION	4X*	IP66		98	89	■		
FIRE SYSTEM COMPATIBLE													
AM302X	SPEAKER			■	CID1	4X	IP66		106				■
FHEX	HORN			■	CID1	4X	IP66		99		■		
INITIATING													
CP-BG / CP-PB	INITIATING DEVICE	■	■		CID2	4X	IP66	■					
MPEX	PULL STATION	■	■		CID1	7/9	INDOOR						
FSF101-EXP	PULL STATION	■	■		CID1	4X	IP66						
FSF103-WP	PULL STATION	■	■		ORDINARY LOCATION	4X	IP66						
FSF102/FSF103	PULL STATION	■	■		ORDINARY LOCATION	INDOOR	INDOOR						

Models AM300/AM302

AUDIOMASTER® PUBLIC ADDRESS SPEAKERS



- 15 W (AM300) or 30 W (AM302)
- Transformer coupled
- 25 or 70 V_{rms}
- Re-entrant horn design
- Wall mount
- Indoor/outdoor use
- Type 3R, IP54 enclosure
- CSFM Approved for Model AM300 only
- UL Fire Listed

Model AM50

AUDIOMASTER® PUBLIC ADDRESS 2 WATT RE-ENTRANT SPEAKER



- 25 or 70 Vrms
- Transformer coupled
- Several mounting options
- Pre-assembled
- Indoor/outdoor use
- Type 3R with WB weatherproof back box
- CSFM Approved
- UL Fire Listed

Model 450E

VIBRATONE® ELECTRONIC HORN



- Fire Regulated 16-33 Vdc General Purpose Signal 12-24 Vdc
- Coded or sustained tones
- No duty cycle or interval limitations
- 99 dBa @ 10' on axis (109 dBa @ 1 m on axis)
- Four-wire terminal block and supervisory diode
- Type 4X when installed with Panel Mount Gasket (included) or optional Non-metallic Weatherproof Backbox (Model WB-NM)
- Marine Rated
- CSFM Approved
- UL and cUL Listed
- UL Fire Listed
- ULC Fire Listed

Model 450EWBX

VIBRATONE® HAZARDOUS LOCATION ELECTRONIC HORN



- No duty cycle
- Four-wire terminal block and supervisory diode
- No detectable RF emissions in a 30-1000 MHz frequency range
- Type 4X enclosure
- IP69K compliant
- Marine Rated
- 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
- 450E horn is UL and ULC Canadian Listed for Fire Alarm use

Models 304GC/314GC and 304GC-CN/314GC-CN

SELECTONE® AMPLIFIED SPEAKERS



- Available in 24 Vdc
- Four-wire supervisable power circuit
- Capable of producing tones or voice messages
- Built-in gain control
- Digital signal amplification
- Fused input and output
- Cast aluminum housing, spun aluminum projector
- External mounting tabs
- Indoor/outdoor use
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- 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
- 304GCX/314GCX are UL Fire Listed
- 304GCX-CN/314GCX-CN are ULC Fire Listed

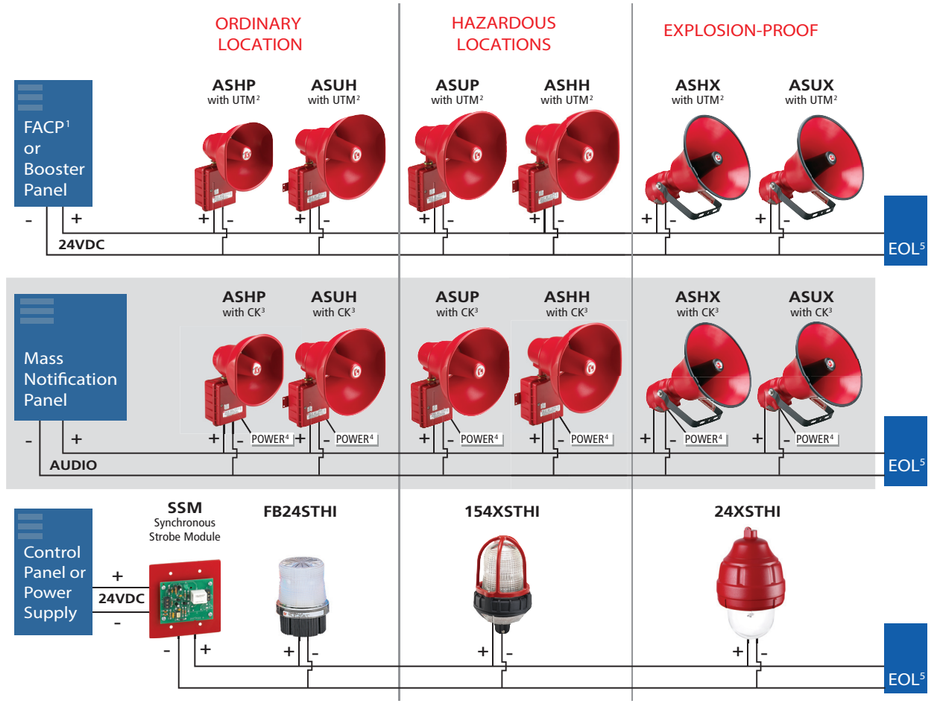
Models ASHP/ASUP

AMPLIFIED SPEAKERS



- 15 W (ASHP) or 30 W (ASUP)
- 24 Vdc
- Built-in gain control
- Four-wire supervisable power circuit
- Digital signal amplification
- Fused input and output
- Easily installed on any flat surface
- Indoor/outdoor use
- Type 3R enclosure
- CSFM Approved
- UL Fire Listed

Typical Application Configurations for Fire Alarm Product



[1] FACP – Fire Alarm Control Panel
[2] UTM – Federal Signal "Universal Tone Module" utilized for on-board tones
[3] CK – Federal Signal AM25CK or AM70CK "Connector Kit" utilized for centralized distributed audio
[4] Power – Each device requires discrete 24 Vdc power from either the FACP or a centralized uninterrupted power supply that is in compliance with NFPA72
[5] EOL – End Of Line resistor

All Federal Signal fire alarm devices contain either four-lead wire or four wiring terminals to facilitate loop in/loop out wiring and internal blocking diodes, or capacitors required for proper FACP supervision.

The FACP or Power Booster configuration utilizes tones onboard the signaling device and distributed power. The devices are wired in a standard loop in/loop out wiring arrangement connecting each device in parallel. These self-amplified speakers utilize an onboard UTM (Universal Tone Module) to generate a preselected tone when power is applied from the FACP (Fire Alarm Control Panel) or Power Booster. An EOL (End of Line Resistor) completes the circuit and allows the FACP to supervise the power line and monitor for breaks in the line. If the circuit is broken, the FACP will indicate a break; devices downstream of the break will be rendered inactive.

The Mass Notification Panel configuration utilizes centralized distributed audio for tone and voice messaging. The audio signal is wired using a standard loop in/loop out arrangement connecting each device in parallel. Discrete power is required for each device from the FACP or a compliant NFPA72 UPS. An EOL (End of Line Resistor) completes the circuit and allows the FACP to supervise the audio line and monitor for breaks. If the circuit is broken, the FACP will indicate a break, and devices downstream of the break will be rendered inactive.

The Control Panel or Power Supply configuration utilizes a standard parallel wiring arrangement for visual signaling devices. If the visual signals are within line of sight of each other, an SSM (Strobe Sync Module) is necessary to synchronize the lights in compliance with NFPA72 regulations. (Consult NFPA regulations for additional details.) An EOL (End of Line Resistor) completes the circuit, allowing the FACP to supervise the main power line and monitor for breaks in the line. If the circuit is broken, the FACP will indicate a break, and devices downstream of the break will be rendered inactive.

Models 24XSTHI-MOD and 24XSTHI-CN
EXPLOSION-PROOF HEARING IMPAIRED STROBE LIGHT

- Available in 24 Vdc regulated
- 60 flashes per minute
- 3/4-inch NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- UL and cUL Listed for Class I, Division 1, Groups C and D; Class I, Division 2, Groups A, B, C and D; Class II, Groups E, F and G; Class III
- 24XSTHI-MOD is UL Fire Listed
- 24XSTHI-CN is ULC Fire Listed
- Synchronize with SSM module

Shown with optional pendant mount.
Ceiling and wall mount options available.



Model FSEX-HI
EXPLOSION-PROOF HEARING IMPAIRED STROBE LIGHT

- Approved mounting in any manner — including dome up
- Synchronize with SSM module
- Current limited
- 10,000-hour, strobe tube
- 3/4-inch NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- CSFM Approved
- UL Listed for Class I, Division 1, Groups C and D; Class I Division 2, Groups A, B, C and D, Class II, Division 1, Groups E, F and G; Class III
- UL Fire Listed
- 60 flashes per minute (FPM)

Shown with optional pendant mount.
Ceiling and wall mount options available.



Models AM300GCX/AM302GCX
AUDIOMASTER® HAZARDOUS LOCATION PUBLIC ADDRESS SPEAKERS

- 15 W (AM300GCX) or 30 W (AM302GCX)
- 25 or 70 V_{rms}
- Transformer coupled
- Re-entrant horn design
- Wall mount
- 1/2-inch conduit openings
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- 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 Fire Listed
- ULC Fire Listed



Model G-SND
GLOBAL SERIES® HAZARDOUS LOCATION SOUNDER

- Supports 3 operational voltages: 24 Vdc, 120 Vac 50/60Hz, and 230 Vac 50/60Hz
- Optional 316 stainless steel ratchet-adjustable mounting U-bracket (field installation required)
- Gain control
- 102 dB @ 10' (112 dB @ 1 m)
- Non-metallic corrosion resistant design, available in Red or Black
- 15 W design
- Field-customizable legend plates available
- Optional indicator rings are available in six colors: Black, Blue, Green, Magenta, Red and Yellow
- Two M20 entries standard on Ex d models, three M20 entries standard on Ex de models
- Type 4X, IP66 enclosure
- CSFM Approved
- 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)
- UL Fire Listed (24 Vdc operating voltage only)



Models 304GCX/314GCX and 304GCX-CN/314GCX-CN

SELECTONE® HAZARDOUS LOCATION AMPLIFIED SPEAKERS

- Available in 24 Vdc
- Four-wire supervisable power circuit
- Capable of producing tones or voice messages
- Built-in gain control
- Digital signal amplification
- Fused input and output
- Cast aluminum housing, spun aluminum projector
- External mounting tabs
- Indoor/outdoor use
- Type 4X, IP66 enclosure
- IP69K compliant
- 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
- CSFM Approved
- 304GCX/314GCX is UL Fire Listed
- 304GCX-CN/314GCX-CN is ULC Fire Listed



Models ASHH/ASUH

HAZARDOUS LOCATION AMPLIFIED SPEAKERS

- 15 W (ASHH) or 30 W (ASUH)
- 24 Vdc
- Four-wire supervisable power circuit
- Reliable, solid-state circuitry
- Digital signal amplification
- Fused input and output
- Built-in gain control
- External mounting tabs
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- 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 Fire Listed



Model G-STR

GLOBAL SERIES® HAZARDOUS LOCATION STROBE LIGHT

- Available in 24 Vdc, 120 Vac and 220-240 Vac 50/60Hz
- Optional 316 stainless steel ratchet-adjustable mounting U-bracket (field installation required)
- Non-metallic corrosion-resistant design, available in Red or Black
- 24 Vdc models contain supervisory diode and four-wire terminal block
- For use in alarm control panel applications
- Dome guard included
- M20 entries standard
- Optional indicator rings are available in six colors: Black, Blue, Green, Magenta, Red and Yellow
- Field-customizable legend plates available
- Type 4X, IP67 enclosure
- IP69K compliant
- CSFM Approved
- 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 1, Zone 1 AEx db IIC T3: Zone 21, AEx tb IIIC T200°C, excludes increase safety versions (Ex de)
- UL and ULC Public Mode Fire listed, Clear 24 Vdc, 21J Strobe Version Only
- UL and ULC ULC Private Mode Fire
- 60 Flashes per minute (FPM)



Models 154XSTHI and 154XST-024C-CN

HAZARDOUS LOCATION SUPERVISED STROBE LIGHT

- Available in 24 Vdc
- Four wires and supervisory diode
- Five dome colors: Amber, Blue, Clear, Green and Red
- 10,000-hour high-intensity strobe
- 80 flashes per minute
- 520,000 peak candela (165 effective)
- 3/4-inch NPT pipe mount or surface mount options
- Dome guard included
- Conformal coated PCB
- Indoor/outdoor use
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- CSFM Approved
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III
- 60 Flashes per minute (FPM)



Model 224XSTHI
ELECTRARAY® HAZARDOUS LOCATION SUPERVISED HEARING IMPAIRED STROBE LIGHT



- 24 Vdc
- Four wires and supervisory diode
- Voltage in-rush limiting PCBA
- Clear dome
- 10,000 hour, high-intensity strobe tube
- 1/2-inch NPT pipe mount
- 580,000 peak candela (240 effective)
- 80 flashes per minute
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- 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 Fire Listed

Models FB24STHI and FB24STHI-024C-CN
FIREBALL® SUPERVISED HEARING IMPAIRED STROBE LIGHT



- Available in 24 Vdc
- Four wires and supervisory diode
- Clear dome
- Easy twist-off dome for re-lamping
- Integrated 1/2-inch NPT pipe and surface mount
- 10,000-hour, strobe tube
- Black epoxy coating for superior corrosion resistance
- In-rush protected
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- CSFM Approved
- FB24STHI-024C is UL Fire Listed
- FB24STHI-024C-CN is ULC Canadian Fire Listed
- 60 Flashes per minute (FPM)

Models DRT-AV-024C-HI and DRTX-AV-024C-HI (Hazardous Location)
DURALERT™ HEARING IMPAIRED COMBINATION AUDIBLE/VISUAL SIGNAL



- Available in 24 Vdc
- Factory set to Temporal 3 tone and 20ms Pulse Strobe 60FPM pattern
- DRT-AV-024C-HI – Surface mount, optional weatherproof backbox WB-NM-R features three 1/2-inch NPT entries
- DRTX-AV-024C-HI – Surface and 1/2-inch NPT pipe mount (includes WB-NM-R backbox)
- Clear dome
- 50,000 Hour LED
- Type 4X, IP66 enclosure
- IP69K compliant
- UL and ULC Fire Listed
- 60 Flashes per minute (FPM)

UL AND ULC FIRE CERTIFIED MODELS

Models 304X/314X and 304X-CN/314X-CN
SELECTONE® EXPLOSION-PROOF SELECTONE AMPLIFIED SPEAKERS



- Available in 24 Vdc
- Four-wire supervisable power circuit
- Capable of producing tones or voice messages
- Built-in gain control
- Fused input and output
- Cast aluminum housing, spun aluminum projector
- External mounting tabs
- Indoor/outdoor use
- Type 4X enclosure
- CSFM Approved
- UL and cUL Listed for Class I, Division 1, Groups B, C and D; Class I, Division 2, Group A, B, C and D; Class II, Division 2, Groups F and G; Class III
- 304X/314X UL Fire Listed
- 304X-CN/314X-CN ULC Fire Listed

Models ASHX/ASUX
EXPLOSION-PROOF AMPLIFIED SPEAKERS



- 15 W (ASHX) or 30 W (ASUX)
- 24 Vdc
- Built-in gain control
- Four-wire supervisable power circuit
- Swivel mount bracket
- Type 4X, IP66 enclosure
- CSFM Approved
- UL and cUL listed for Class I, Division 1, Groups B, C and D; Class I, Division 2, Group A, B, C, and D; Class II, Division 2, Groups F and G; Class III
- ASHX and ASUX UL Fire Listed

Models AM300X
AUDIOMASTER® EXPLOSION-PROOF PUBLIC ADDRESS SPEAKERS



- 15 W
- 25 or 70 V_{rms}
- Transformer coupled
- Re-entrant horn design
- Heavy-duty U-bracket swivel mount
- Type 4X, IP65 enclosure
- CSFM Approved
- UL and cUL Listed for Class I, Division 1, Groups B, C and D; Class I, Division 2, Group A, B, C, and D; Class II, Division 2, Groups F and G; Class III
- UL Fire Listed