FEDERAL SIGNAL







WE PROTECT THE MOST HAZARDOUS ENVIRONMENTS

EXPLOSION-PROOF AND HAZARDOUS VISUAL & AUDIBLE SIGNALING



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 together with customers globally, our customer support team, engineers and technicians provide a full range of products to assist with any application.

CERTIFICATIONS

Our products have been designed to meet or exceed the uncompromising standards of UL, CSA, ATEX, 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.

GLOBAL SERIES® NON-METALLIC DESIGN WAS DEVELOPED FOR LOW MAINTENANCE AND CORROSION RESISTANCE.



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

The patented modular housing design allows individual signals to be combined into multi-signal fixtures, which reduces the customer's installation and wiring burden. Coupling kits allow installers in the field to create multi-unit configurations. Multi-signal fixtures with 2-6 signals can be combined into multiple configurations.

GLOBAL SERIES® MODULAR DESIGN PROVIDES

FLEXIBILITY

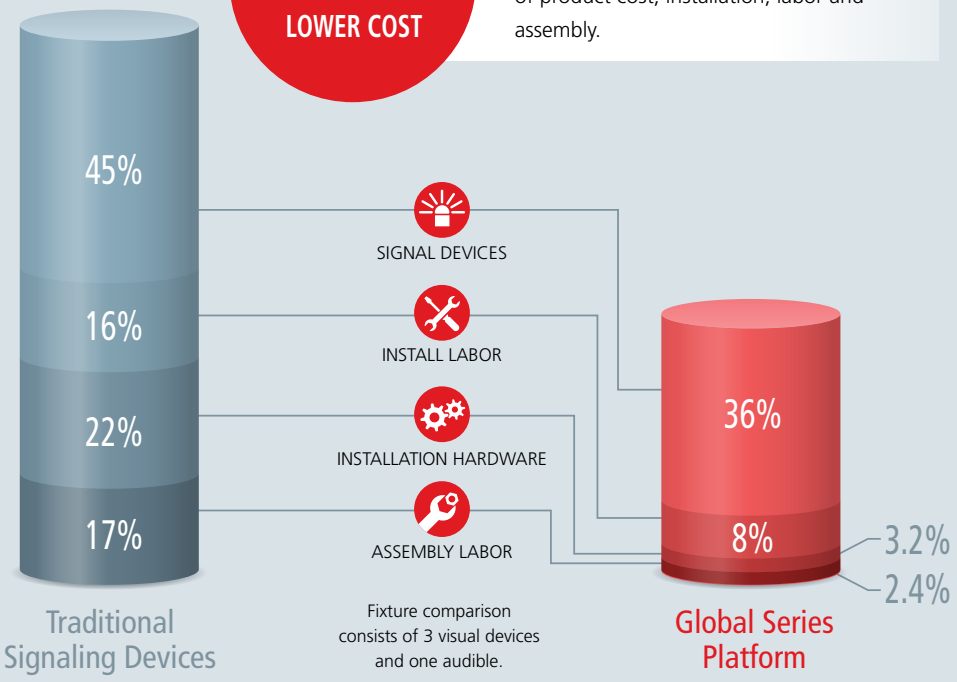
COST-SAVINGS

EASY INSTALLATION

TOTAL COST OF OWNERSHIP

50.4%
LOWER COST

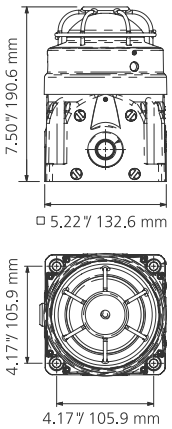
In comparison with traditional products, Global Series is less expensive in terms of product cost, installation, labor and assembly.



MODEL G-LED

FLAMEPROOF & HAZARDOUS LOCATION LED BEACON



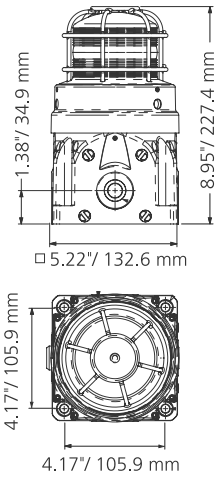


- Available in 24VDC and 120-240VAC 50/60Hz
- 50,000 hour LED array
- Corrosion resistant GRP design
- Operating Temperature Range: -67°F to 158°F; -55°C to 70°C
- Stainless steel dome guard included
- Two M20 entries standard on Ex d models; Three M20 entries standard on Ex de models
- Standard M20 cable entries; 1/2" NPT and 3/4" NPT adapters available; M25 cable entry option
- Type 4X, IP66, IP69K enclosure
- 8 field selectable flash patterns including 60, 75 and 90 FPM
- Auto-sync available for AC flashing pattern products
- 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, Gruops F and G; Class III
- UL and cUL Listed for Class I, Zone 1 AEx db IIC and Zone 21, AEx op is tb IIC T200°C (excludes 'Ex de' increased safety versions)

MODEL G-STR

FLAMEPROOF & HAZARDOUS LOCATION STROBE BEACON





- 15-Joule and 21-Joule models
- Available in 24VDC, 120VAC and 220-240VAC 50/60Hz
- 10,000 hour strobe tube
- Corrosion resistant GRP design
- Operating Temperature Range: -67°F to 158°F; -55°C to 70°C
- Stainless steel dome guard included
- Two M20 entries standard on Ex d models; Three M20 entries standard on Ex de models
- Standard M20 cable entries; 1/2" NPT and 3/4" NPT adapters available; M25 cable entry option
- Type 4X, IP66, IP69K 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 T3: Zone 21, AEx tb IIC T200°C (excludes 'Ex de' increased safety versions)
- UL Fire Listed (24VDC, Clear model only)

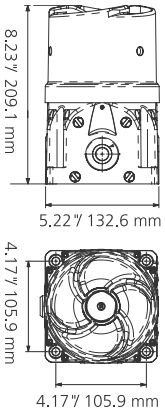
MODEL G-SND

FLAMEPROOF & HAZARDOUS LOCATION SOUNDER

- Available in 3 operational voltages: 24VDC,120VAC 50/60 Hz, and 230VAC 50/60 Hz
- 15 watt design with internal gain control
- 15 on-board tones produce 98dBa @ 10' (108dBa @ 1M)
- Corrosion resistant GRP design
- Operating Temperature Range: -67°F to 158°F; -55°C to 70°C
- Two M20 entries standard on Ex d models;
  Three M20 entries standard on Ex de models
- Standard M20 cable entries; 1/2" NPT and 3/4" NPT adapters available; M25 cable entry option
- 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 1, Zone 1 AEx db IIC T4: Zone 21, AEx tb IIIC T4/135°C (excluding 'Ex de' increased safety versions)
- UL Fire Listed (24VDC operating voltage only)



Ex d Surface Mount shown



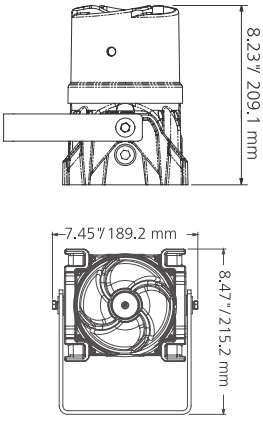
MODEL G-SPK

FLAMEPROOF & HAZARDOUS LOCATION LOUDSPEAKER

- Loudspeaker available in 70 Vrms or 100 Vrms
- Corrosion resistant GRP design
- Operating Temperature Range: -67°F to 158°F; -55°C to 70°C
- 15 watt design produces 96dBa @ 10' (106dBa @ 1M)
- Two M20 entries standard on Ex d models;
  Three M20 entries standard on Ex de models
- Standard M20 cable entries; 1/2" NPT and 3/4" NPT adapters available; M25 cable entry option
- 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 1, Zone 1 AEx db IIC T4: Zone 21, AEx tb IIC T4/135°C (excludes Ex de increased safety versions)



Shown with stainless steel mounting U-bracket (optional)



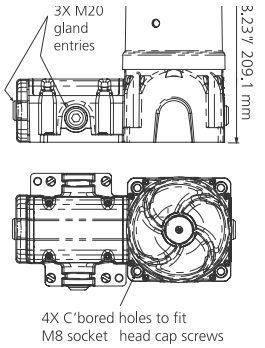
MODEL G-SPA

FLAMEPROOF & HAZARDOUS LOCATION AMPLIFIED SPEAKER

- Corrosion resistant GRP design
- 96dBa @ 10' (106dBa @ 1M) with internal gain control
- Supports 3 operational voltages: 24VDC, 120VAC 50/60 Hz, and 230VAC 50/60 Hz
- Operating Temperature Range: -67°F to 158°F; -55°C to 70°C
- Two M20 entries standard on Ex d models; Three M20 entries standard on Ex de models
- Standard M20 cable entries; 1/2" NPT and 3/4" NPT adapters available; M25 cable entry option
- 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 1, Zone 1 AEx db IIC T4: Zone 21, AEx tb IIC T4/135°C (excludes Ex de increased safety versions)



Ex de Surface Mount shown



MODELS WV450XD / WV450XE

FLAMEPROOF STROBE MODEL

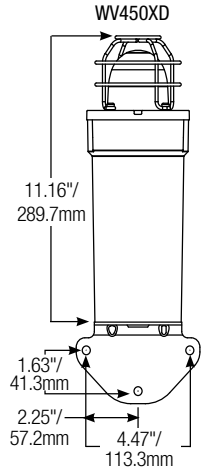
- Available in 10, 15 and 21 Joule Units
- 10,000 Hour Strobe Tube
- Available voltages (±15%): 24-48VDC – 15J units, 110VAC – 10J/21J units, 220VAC – 10J/21J units
- Optional Ex de junction box
- Corrosion resistant GRP (Glass Reinforced Polyester)
- Operating Temperatures:

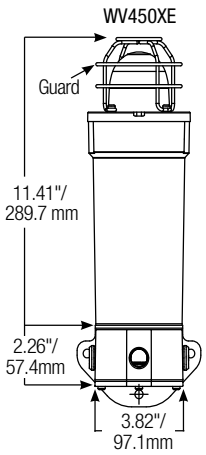
  WV450XD "d" version without terminal chamber
  -55°C to 55°C (-67°F to 131°F)

  WV450XE "de" version with terminal chamber
  -20°C to 55°C (-4°F to 131°F)
- 316 stainless steel dome guard and mounting bracket included
- M20 cable entries
  Ex d: 2 entries M20 x 1.5
  Ex de: 3 entries M20 x 1.5
- IP66 enclosure
- Zone rated, IECEx, ATEX, Ex d IIB +H2 T3-T4, Ex de IIB +H2 T3-T4



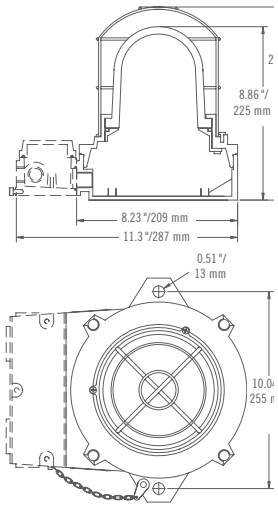
Shown with optional Ex de junction box





MODEL 2000 SERIES
FLAMEPROOF LED WARNING LIGHT

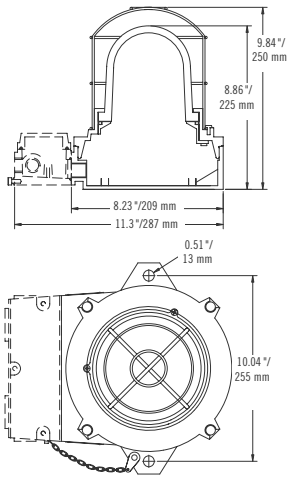




- Three remotely selectable flash patterns including steady, 60FPM and 80FPM
- 50,000 hour lamp life
- Operating Temperature: -40°F to 131°F; -40°C to 55°C
- Ex de terminal chamber available
- AC and DC voltage ranges
- Approved for use in Zone 1, 2, 21, 22 atmospheres
- IP66 enclosure
- Zone 1, 2, 21, 22 Ex d IIB T4 Ex tD A21; Ex de IIB T4 Ex tD A21

MODELS 2000 SERIES XEN1 & XEN4
FLAMEPROOF STROBE WARNING LIGHTS





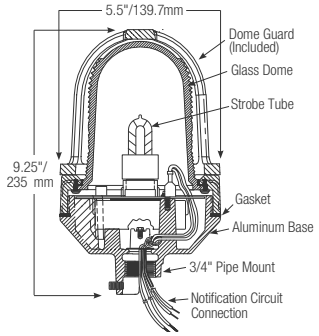
- Single and four strobe tube models
- Internal Fresnel lens
- 5,000 hour lamp life
- Operating Temperature: -40°F to 158°F; -40°C to 70°C
- Ex de terminal chamber available
- Available in 5 operating voltages: 24VDC, 48VDC, 110VDC, 110VAC and 240VAC
- IP66 enclosure
- Zone 1, 2, 21, 22 Ex d IIB T4 Gb, Ex tb IIIB Db; Ex de IIB T4 Gb, Ex tb IIIB Db

MODEL 151XST
HAZARDOUS LOCATION WARNING LIGHT

- Available in 12-24VDC, 120VAC and 240VAC
- 10,000 hour, high-intensity strobe produces 80FPM
- Operating Temperature: -67°F to 150°F; -55°C to 66°C
- Available in 3/4-inch NPT pipe mount or surface mount
- Dome guard included
- Indoor/outdoor use
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; and Class III



Pipe mount shown. Also available in surface mount.

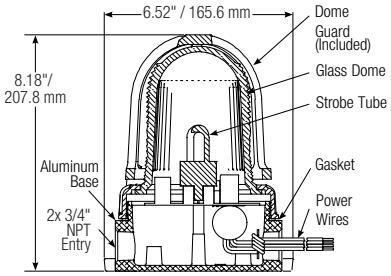


MODEL 154XST
HAZARDOUS LOCATION STROBE WARNING LIGHT

- Available in 24VDC
- 10,000 hour, high-intensity strobe tube produces 80FPM
- Operating Temperature: -67°F to 150°F; -55°C to 66°C
- Indoor/outdoor use
- Available in 3/4-inch NPT pipe mount or surface mount
- Type 4X, IP66, IP69K enclosure
- 4-wired supervised power circuit
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; and Class III



Surface mount shown. Also available in Pipe mount.

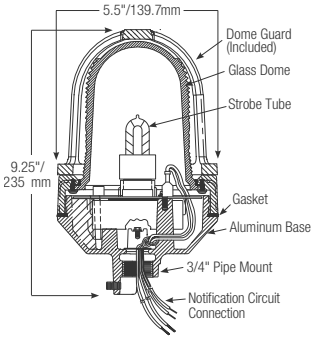


MODELS 154XSTHI & 154XSTHI-CN
HAZARDOUS LOCATION SUPERVISED STROBE WARNING LIGHT

- Available in 24VDC
- 10,000 hour, high-intensity strobe tube produces 60FPM
- Operating Temperature: -67F to 150F; -55C to 66C
- 4-wired supervised power circuit
- Indoor/outdoor use
- Available in 3/4-inch NPT pipe mount or surface mount
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; and Class III



Pipe mount shown. Also available in surface mount.

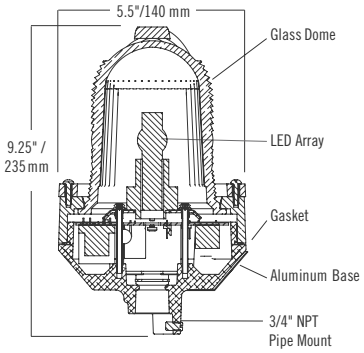


MODELS 191XL & 191XL-CN
HAZARDOUS LOCATION LED WARNING LIGHT

- Flashing mode standard, configurable to steady-burn
- Available in 24VAC/DC, 120-240VAC and 277VAC
- 50,000 hour, vibration resistant LED lamp
- Operating Temperature: -58°F to 150°F; -50°C to 66°C
- Available in 3/4-inch NPT pipe mount or surface mount
- Dome guard included
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; and Class III
- 191XL-CN units are UL and cUL Listed for Class I, Zone 2, AEx nA IIC Gc; Zone 22 AEx tc IIIC Dc



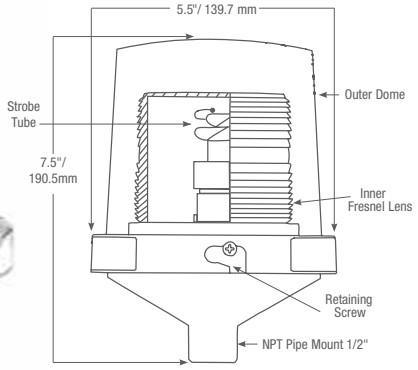
Pipe mount shown. Also available in surface mount.



MODELS 224XST
HAZARDOUS LOCATION SUPERVISED STROBE WARNING LIGHT

- Available in 24VDC
- 10,000 hour, high-intensity strobe tube produces 80FPM
- Operating Temperature: -40°F to 104°F; -40°C to 40°C
- Indoor/outdoor use
- 4-wired supervised power circuit
- Type 4X, IP66, IP69K enclosure
- 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

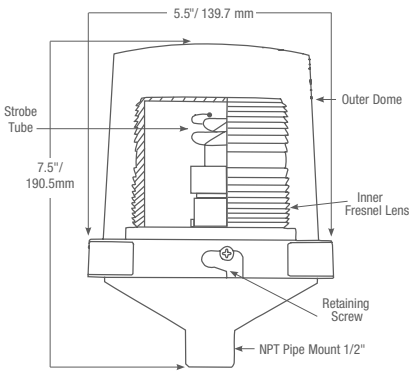




MODEL 224XSTHI
HAZARDOUS LOCATION HEARING IMPAIRED STROBE WARNING LIGHT

- Available in 24VDC
- 10,000 hour, high-intensity strobe tube produces 80FPM
- Operating Temperature: -40°F to 104°F; -40°C to 40°C
- Indoor/outdoor use
- 4-wired supervised power circuit
- Type 4X, IP66, IP69K enclosure
- 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

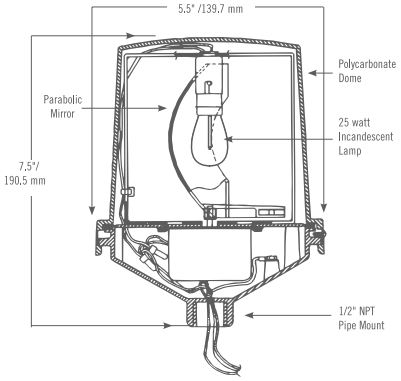




MODEL 225X
HAZARDOUS LOCATION ROTATING WARNING LIGHT

- Available in 120VAC
- 25 watt incandescent lamp
- Operating Temperature: -40°F to 104°F; -40°C to 40°C
- 1/2-inch pipe mount
- Indoor/outdoor use
- Type 4X, IP66, IP69K enclosure
- 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

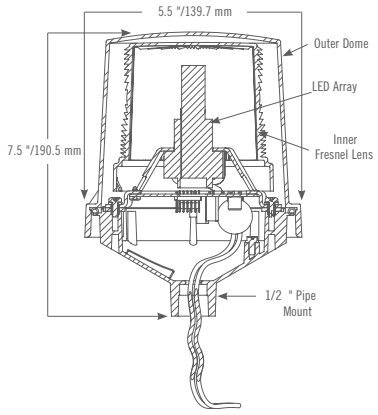




MODEL 225XL
HAZARDOUS LOCATION LED WARNING LIGHT

- Flashing mode standard, field configurable to steady-burn
- Available in 24VAC/DC and 120-240VAC
- 50,000 hour, vibration-resistant LED lamp
- Operating Temperature: -58°F to 150°F; -50°C to 66°C
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division Groups F and G; and Class I

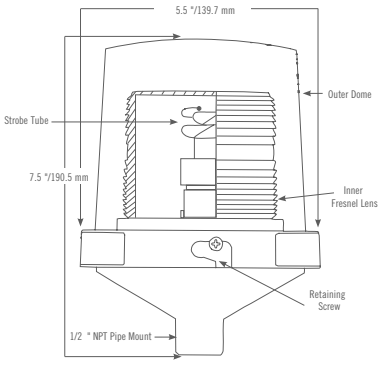




MODELS 225XST / 225XST-I
HAZARDOUS LOCATION STROBE WARNING LIGHT

- Available in 12-24VDC, 24VDC, 120VAC and 240VAC
- 10,000 hour, high-intensity strobe tube produces 80FPM
- Operating Temperature: -40°F to 104°F; -40°C to 40°C
- Model 225XST-I features a voltage in-rush limiting PCB design
- Type 4X, IP66, IP69K enclosure
- 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

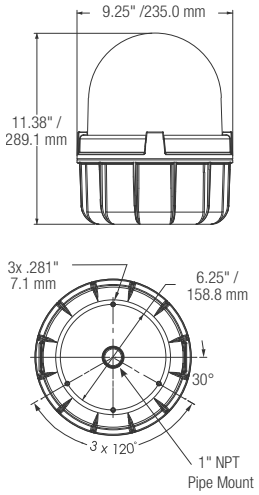




MODEL 371DST
HAZARDOUS LOCATION DOUBLE STROBE WARNING LIGHT

- Available in 12-24VDC, 120VAC and 240VAC
- 10,000 hour strobe tube
- Operating Temperature: -31°F to 104°F; -35°C to 40°C
- Surface mount and integrated 1" NPT pipe mount
- Type 4X, IP66, IP69K enclosure
- UL and cUL Listed for Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G and Class III

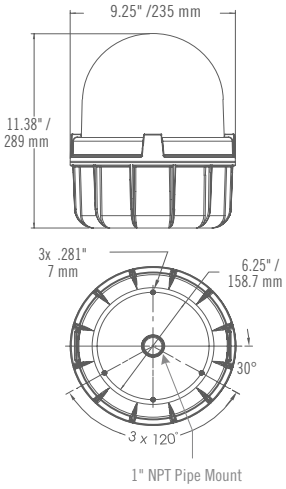




MODEL 371LEDX
HAZARDOUS LOCATION ROTATING LED WARNING LIGHT

- Available in 120VAC
- 50,000 hour LED
- Operating Temperature: -31°F to 104°F; -35°C to 40°C
- Surface mount and integrated 1" NPT pipe mount
- Type 4X, IP66, IP69K enclosure
- 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

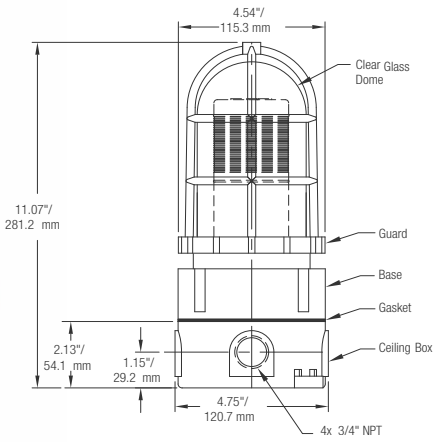




MODEL USIX
HAZARDOUS LOCATION UNISTAT™ STATUS INDICATOR

- Available in 24VDC and 120VAC
- Tri or quad-color models
- 50,000 hour LED
- Operating Temperature: -40°F to 150°F; -40°C to 66°C
- Type 4X, IP66, IP69K enclosure
- UL and cUL Listed for Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; and Class III



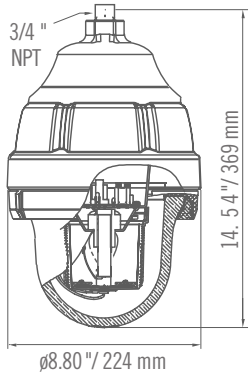


MODEL 27XL
EXPLOSION-PROOF LED WARNING LIGHT

- Available in 24VAC/DC and 120-240VAC
- Flashing or steady-burn mode
- 50,000 hour LED
- Operating Temperature Range: -67°F to 150°F; -55°C to 65°C
- 3/4" NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 1 Groups C and D; Class I, Division 2, Groups A and B; Class II Division 1, Groups E, F and G; and Class III



Shown with pendant mount

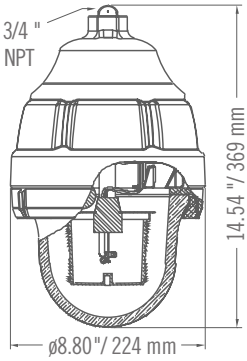


MODEL 27XST
EXPLOSION-PROOF STROBE LIGHT

- Available in 24VDC, 120VAC and 240VAC
- 10,000 hour strobe tube produces 80FPM
- Operating Temperature Range: -67°F to 150°F; -55°C to 65°C
- 3/4" NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 1 and 2, Groups C and D; Class I, Division 2, Groups A and B; Class II Division 1, Groups E, F and G; and Class III



Shown with pendant mount

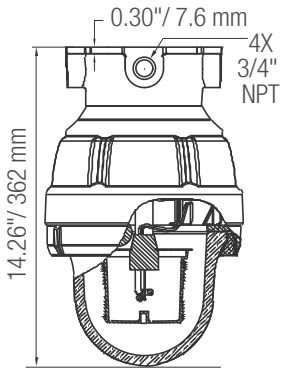


MODEL 27XST-024*-4-MOD
EXPLOSION-PROOF STROBE WARNING LIGHT

- Available in 24VDC
- 10,000 hour, high-intensity strobe tube produces 80FPM
- Operating Temperature Range: -67°F to 150°F; -55°C to 65°C
- Indoor/outdoor use
- Type 4X, IP66, IP69K enclosure
- 3/4" NPT pendant, ceiling and wall mount options available
- 4-wired supervised power circuit
- UL and cUL Listed for Class I, Division 1 and 2, Groups C and D; Class I, Division 2, Groups A and B; Class II, Division 1, Groups E, F and G; and Class III



Shown with ceiling mount

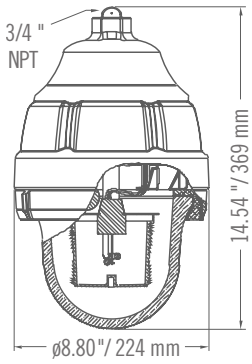


MODEL 121X
EXPLOSION-PROOF INCANDESCENT ROTATING LIGHT

- Available in 24VDC
- 800 hour incandescent light produces 90 rotations per minute
- Operating Temperature Range: -67F° to 150F°; -55°C to 65°C
- Indoor/outdoor use
- Type 4X, IP66, IP69K enclosure
- 3/4" NPT pendant, ceiling and wall mount options available
- Marine Rated
- UL and cUL Listed for Class I, Division 1 and 2, Groups C and D; Class II, Division 1, Groups E, F and G; and Class III



Shown with pendant mount

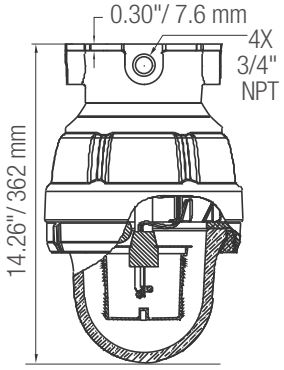


MODEL 24XST
EXPLOSION-PROOF SUPERVISED STROBE LIGHT

- Available in 24VDC
- 10,000 hour, high-intensity strobe tube produces 60FPM
- Operating Temperature Range: -67°F to 150°F; -55°C to 65°C
- Indoor/outdoor use
- Type 4X, IP66, IP69K enclosure
- 4-wired supervised power circuit
- 3/4" NPT pendant, ceiling and wall mount options available
- Marine Rated
- UL and cUL Listed for Class I, Division 1 and 2, Groups C and D; Class I, Division 2, Groups A and B; Class II, Division 1, Groups E, F and G; and Class III



Shown with ceiling mount

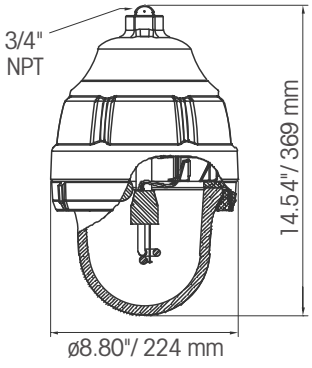


MODELS 24XSTHI & 24XSTHI-CN
EXPLOSION-PROOF HEARING IMPAIRED SUPERVISED STROBE LIGHT

- Available in 24VDC
- 10,000 hour strobe tube produces 80FPM
- Operating Temperature Range: -67°F to 150°F; -55°C to 66°C
- Indoor/outdoor use
- Type 4X, IP66, IP69K enclosure
- 3/4" NPT pendant, ceiling and wall mount options available
- Marine Rated
- UL and cUL Listed for Class I, Division 1 and 2, Groups C and D; Class II, Division 1, Groups E, F and G; and Class III



Shown with pendant mount



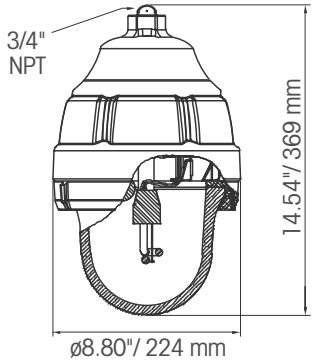
MODELS FSEX & FSEXHI

EXPLOSION-PROOF STROBE LIGHT

- Available in 24VDC
- 10,000 hour strobe tube
- Operating Temperature: -67°F to 50°F; -55°C to 65°C
- 3/4" NPT pendant, ceiling and wall mount options
- FSEX-HI is rated for UL 1971 (hearing-impaired)
- UL and cUL for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class I, Division 2, Groups A, B; and Class III

Shown with pendant mount





RANGE CERTIFICATIONS

BEACONS, LIGHTS, and STROBES

CERTIFICATIONS ▶ PRODUCTS ▼									ABS	CSFM	IP RATING
G-LED	■	■	■		■		■	■	■		66/69K
G-STR	■	■	■		■		■	■	■		66/69K
WV450XD & WV450XE	■	■			■		■	■			66
2000 - LEDD, XEN1 & XEN4	■	■			■		■	■			66
151XST			■			■					66/69K
154XST			■							■	66/69K
154XSTHI & 154XSTHI-CN			■	■							66/69K

RANGE CERTIFICATIONS

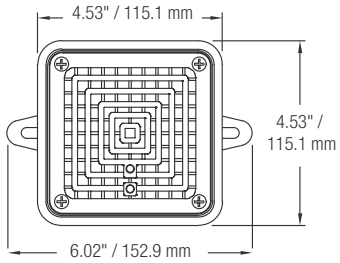
BEACONS, LIGHTS, and STROBES

CERTIFICATIONS ▶ PRODUCTS ▼	Ex	IECEx	c UL us	UL	CE	SA	INMETRO	EAC	ABS	CSFM	IP RATING
 191XL & 191XL-CN			■								66/69K
 224XST			■			■				■	66/69K
 224XSTHI			■							■	66/69K
 225X			■								66/69K
 225XL			■								66/69K
 225XST & 225XST-I			■			■					66/69K
 371DST			■								66/69K
 371LEDX			■								66/69K
 USIX			■								66/69K
 27XL			■								66/69K
 27XST & 27XST-024*-4-MOD			■							■	66/69K
 121X			■								66/69K
 24XST			■							■	66/69K
 24XSTHI & 24XSTHI-CN			■	■							66/69K
 FSEX & FSEX-HI			■							■	66/69K

MODEL 350WBX
HAZARDOUS LOCATION ELETRO-MECHANICAL HORN

- Available in 120VAC and 240VAC
- Operating Temperature: -65°F to 104°F; -54°C to 40°C
- Produces 100 dBa @ 10' (110 dBa @ 1m)
- Surface, flush or semi-flush mounting
- Type 4X, IP66, IP69K enclosure
- UL and cUL Listed for Class I, Division 2; Class II, Division 2; Class III

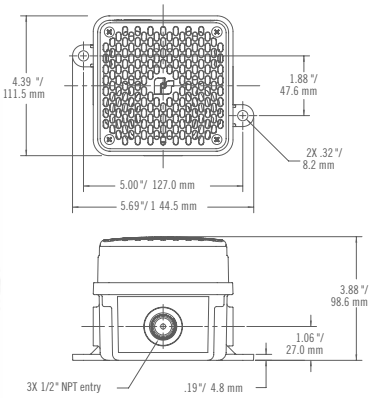




MODEL 450EWBX
HAZARDOUS LOCATION ELECTRONIC HORN

- Corrosion resistant non-metallic housing
- Available in 12-24VDC
- Operating Temperature: -65°F to 150°F; -54°C to 66°C
- 94-99 dBa @ 10' (104-109 dBa @ 1m) depending on operating voltage, no duty cycle
- Four wire terminal block and supervisory diode
- Type 4X, IP66, IP69K enclosure
- Marine Rated
- UL and cUL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; and Class III
- 450EWBX horn is UL and ULC Listed for Fire Alarm use

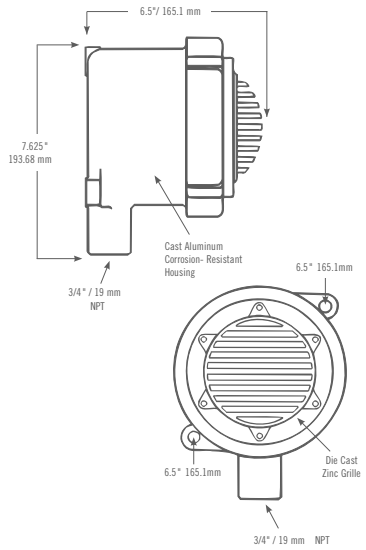




MODELS 31X / 41X
EXPLOSION-PROOF VIBRATING HORN

- 31X is available in 120VAC and 240VAC; 41X is available in 24VDC
- Operating Temperature: -31°F to 150°F; -35°C to 66°C
- Corrosion resistant cast aluminum housings
- 3/4-inch pipe or surface mount
- Produces 100 dBa @ 10' (110 dBa @ 1m)
- UL and cUL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; and Class III



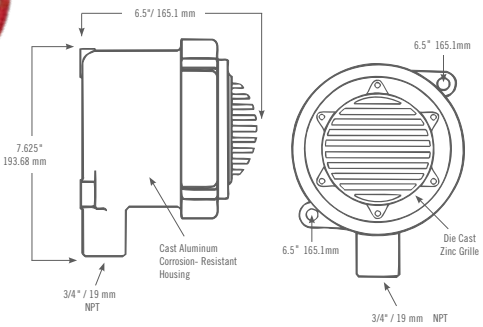


MODEL FHEX
EXPLOSION-PROOF VIBRATING HORN

- Available in 24VDC
- Produces 99 dBa @ 10' (109 dBa @ 1m)
- Operating Temperature: -31°F to 150°F; -35°C to 66°C
- UL and cUL Listed for Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F, and G; and Class III

c UL us CSFM



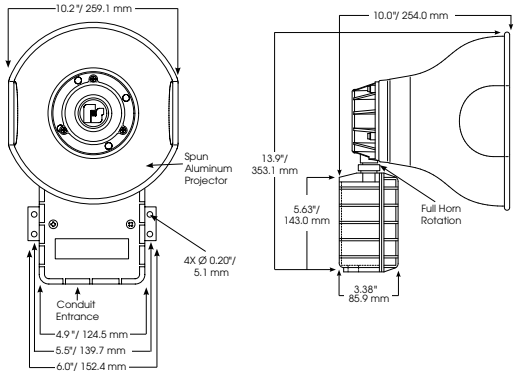


MODEL SST3GCX-MV
HAZARDOUS LOCATION ELECTRONIC SIREN

- Multi-voltage design accepts 24VDC or 120/240VAC
- Operating Temperature:-67°F to 150°F; -55°C to 66°C
- Produces up to 110.5 dBa at 10' (120 dBa at 1M)
- Produces three tones: Wail, Yelp, and Horn
- Type 4X , IP66, IP69K enclosure
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F & G; Class III

c UL us



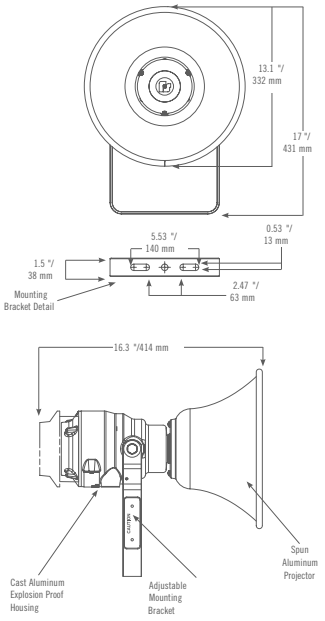


MODEL SSTX3-MV
EXPLOSION-PROOF ELECTRONIC SIREN

- Multi-voltage design accepts 24VDC, 120VAC or 240VAC
- Operating Temperature: -67°F to 151°F; -55°C to 66°C
- Produces three remotely selectable tones: Wail, Yelp and Horn
- 101-108 dBa @ 10' (111-118 dBa @ 1m) depending on tone
- Type 4X, IP66 enclosure
- UL and cUL Listed for Class I, Division 1, Groups B, C and D; Class I, Division 2, Group A; Class II, Division 2, Groups F and G; and Class III

c UL us

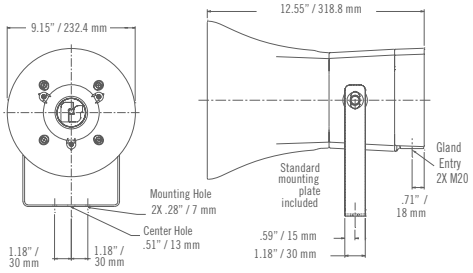




MODELS P-LS2B / P-LS2C
FLAMEPROOF CORROSION RESISTANT ZONE 1 LOUDSPEAKER

- Corrosion resistant anti-static GRP (Glass-Reinforced Polyester) design
- Stainless steel universal mounting bracket and hardware
- 10 preset power taps from 25 to 0.2 watts
- Two M20 x 1.5mm threaded conduit entries
- IP66 enclosure
- (P-LS2B) ATEX Zone 1 Rated Gas Group IIB
- (P-LS2C) ATEX Zone 1 Rated Gas Group IIC
- 8 Ohms models P-LS2B-8 and P-LS2C-8

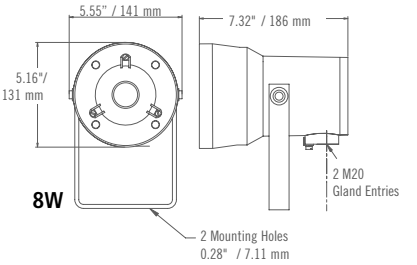




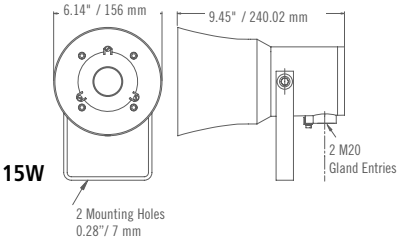
MODELS 110-120 / ES SERIES
HAZARDOUS AREA MARINE AND INDUSTRIAL LOUDSPEAKERS

- 8 watt versions produce 100-114dBa @ 1m (model dependent)
- 15 watt versions produce 103-118dBa @ 1m (model dependent)
- 25 watt versions produce 116-125dBa @ 1m (model dependent)
- Integrated Speaker Monitoring and remote Tapping (I.S.M.T.)
- IP66 enclosure
- 120 and ES4, ES5 are IECEx, INMETRO and EAC only
- Zone 1 IIB and IIC approved

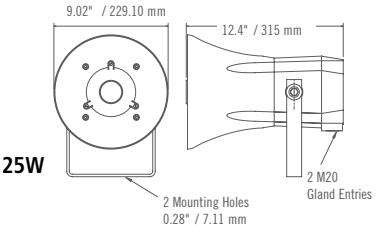








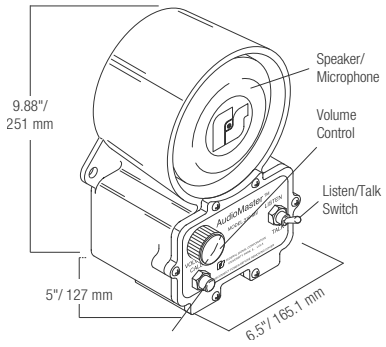




MODEL 310X-MV
HAZARDOUS LOCATION TWO-WAY INTERCOM

- Multi-voltage design accepts 24VDC, 120VAC and 240VAC
- Heavy-duty industrial intercom for indoor or outdoor applications
- Type 4X, IP65 enclosure
- UL and cUL Listed for Class I, Division 2, Group A, B, C and D; Class II, Division 2, Groups F and G. Class III



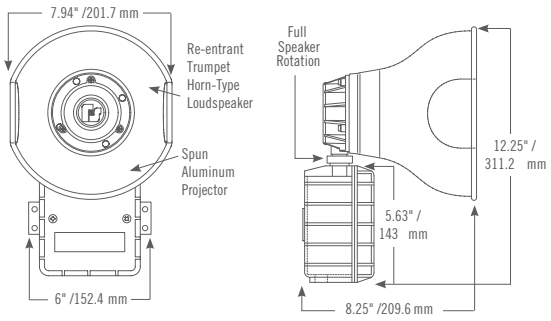


MODELS 300GCX / 302GCX
HAZARDOUS LOCATION SPEAKER AMPLIFIER

- Available in 24VAC/DC, 120VAC and 240VAC
- Operating Temperature: -67°F to 150°F; -55°C to 66°C
- Built-in gain control (volume)
- 300GCX produces 0-110 dBa @ 10 feet (0-120 dBa @ 1m)
- 302GCX produces 0-114 dBa @ 10 feet (0-124 dBa @ 1m)
- Type 4X, IP69K enclosure
- UL Fire Listed
- 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
- CN models are UL and cUL Listed for Class I, Zone 2, AEx nA IIC Gc; Class II, Zone 22 AEx tc IIIC Dc



MODEL SHOWN 300GCX, 304GCX AND AM300GCX

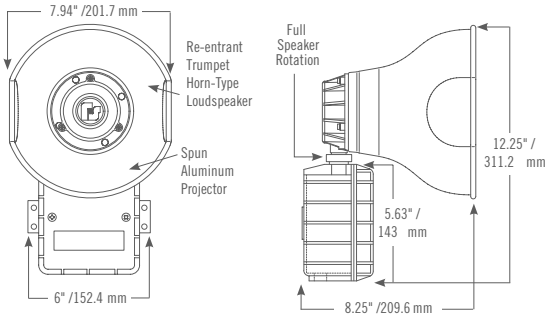


MODELS 304GCX / 314GCX
PUBLIC ADDRESS HAZARDOUS LOCATION AMPLIFIED SPEAKER

- Available in 24VDC
- Operating Temperature: -40°F to 150°F; -40°C to 66°C
- Built-in gain control (volume)
- 304GCX produces 0-108 dBa @ 10' (0-118 dBa @ 1m) on axis
  314GCX produces 0-112 dBa @ 10' (0-122 dBa @ 1m) on axis
- Type 4X, IP69K enclosure
- 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
- ULC Canadian Fire Listed models available (-CN)



MODEL SHOWN 300GCX, 304GCX AND AM300GCX

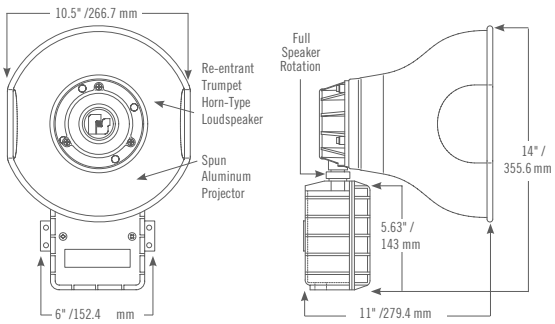


MODELS AM300GCX / AM302GCX
PUBLIC ADDRESS HAZARDOUS LOCATION SPEAKER

- Transformer coupled
- 25 or 70 Vrms
- Operating Temperature: -40°F to 150°F; -40°C to 66°C
- Re-entrant horn design
- Type 4X, IP69K enclosure
- UL Fire Listed
- 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



MODEL SHOWN 302GCX, 314GCX AND AM302GCX

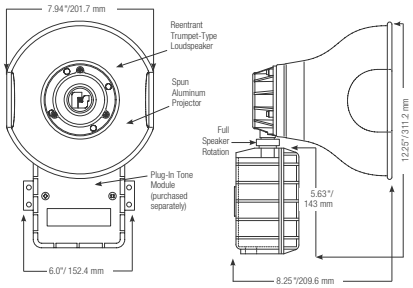


MODEL AM15XD2
HAZARDOUS LOCATION PUBLIC ADDRESS SPEAKER

- 8 Ohm, 15 watt
- 1/2" conduit openings
- Type 4X, IP66, IP69K enclosure
- UL and cUL Listed for Class 1, Division 2, Groups A,B,C, and D; Class II, Division 2, Groups F & G; and Class III



MODEL SHOWN AM15XD2

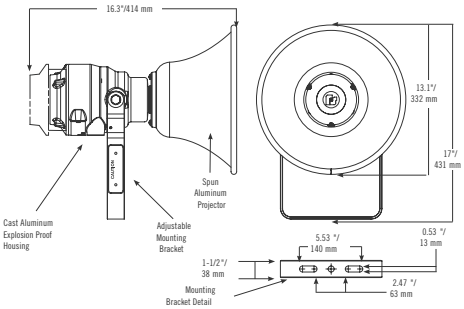


MODELS 300X / 302X
EXPLOSION-PROOF AMPLIFIED SPEAKER

- Available in 24VAC/DC and 120/240VAC
- Operating Temperature: -67°F to 151°F; -55°C to 66°C
- Digital Signal Amplification
- Fused input and output
- Built-in gain control
- 300X produces 0-110 dBa @ 10' (0-120 dBa @ 1m)
- 302X produces 0-114 dBa @ 10' (0-124 dBa @ 1m)
- Type 4X, IP66 enclosure
- UL Fire Listed
- UL and cUL Listed for Class I, Division 1, Groups B, C, and D; Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; and Class III



MODEL SHOWN 300X, 304X AND AM300X

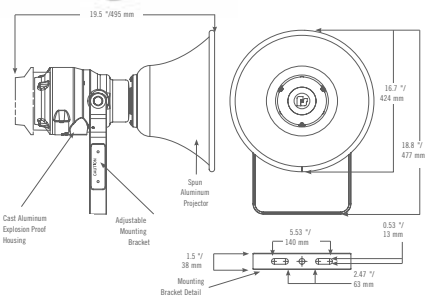


MODELS 304X / 314X
EXPLOSION-PROOF AMPLIFIED SPEAKER

- Available in 24VDC
- Operating Temperature: -40°F to 150°F; -40°C to 66°C
- Digital signal amplification
- Fused input and output
- 304X produces 0-108 dBa @ 10' (0-118 dBa @ 1m) on axis
- 314X produces 0-112 dBa @ 10' (0-122 dBa @ 1m) on axis
- 4-wire supervised power circuit
- Type 4X, IP66 enclosure
- UL and cUL Listed for Class I, Division 1, Groups B, C and D; Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; and Class III
- UL Fire Listed and ULC Canadian Fire Listed models



MODEL SHOWN 302X, 314X AND AM302X



MODELS 304X / 314X AND AM300X/AM302X

MODELS AM300X / AM302X
EXPLOSION-PROOF PUBLIC ADDRESS SPEAKER

- 25 or 70 Vrms
- Transformer coupled
- Re-entrant horn design
- AM300X produces 106dBa @ 10' (116dBa @ 1m) on axis
- AM302X produces 112dBa @ 10' (122dBa @ 1m) on axis
- Type 4X, IP65 enclosure
- UL and cUL Listed for Class I, Division 1, Groups B, C and D; Class 1, Division 2 Groups A, B, C and D; Class II, Division 2, Groups F and G; and Class III
- UL Fire Listed



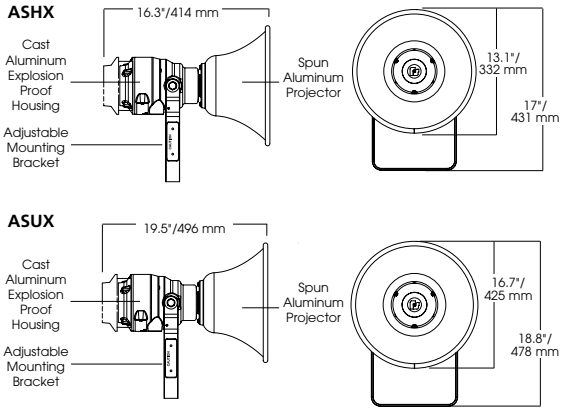
MODEL SHOWN 302X, 314X AND AM302X

MODELS ASHX AND ASUX
EXPLOSION-PROOF AMPLIFIED SPEAKERS

- 24VDC
- Built-in gain control
- Four wire supervisable power circuit
- Swivel mount bracket
- NEMA 4X, IP65 enclosure
- UL Listed for Class I, Division 1, Groups B, C & D; Class I, Division 2, Group A; Class II, Division 2, Groups F & G; Class III



MODEL SHOWN ASHX AND ASUX

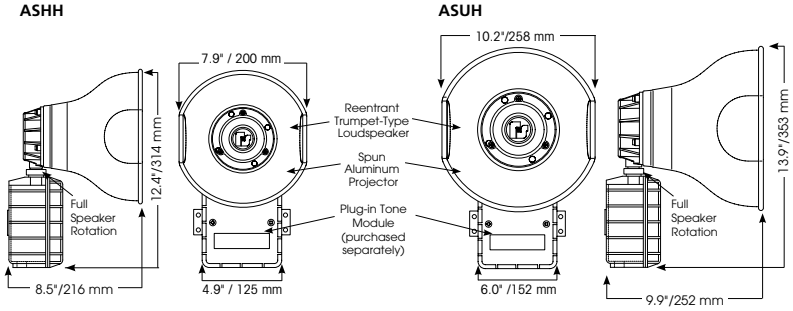


MODELS ASHH AND ASUH
HAZARDOUS LOCATION AMPLIFIED SPEAKERS

- 24VDC
- 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 enclosure
- UL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F & G; and Class III



MODEL SHOWN ASHH AND ASUH



MODEL MPEX
EXPLOSION-PROOF FIRE ALARM PULL STATION



- Available in 120VAC
- Highly visible red enclosure
- Two step process: Lift cover and pull down ring to activate
- 2 – 3/4" NPT conduit entries
- Type 7 for Groups C and D; Type 9 for Groups E, F and G
- UL Listed for Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F and G; and Class III

CSFM

MODEL LHWB
HAZARDOUS LOCATION LIGHT MOUNTING KIT



IDEAL FOR USE WITH MODELS 151XST, 154XST, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, 371LEDX

- Easy installation
- For wall mount applications
- Replaces unsightly and hazardous makeshift supports
- Provides 3/4" NPT standard pipe mount
- Adapter bushings available 3/4"- 1/2" and 3/4"- 1"
- Type 4X, IP66 enclosure
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II, Groups E, F and G; and Class III

c US

MODEL SSM
SYNCHRONOUS STROBE MODULE



IDEAL FOR USE WITH MODELS 151XST, 154XST, 224XST, 224XST-HI, 225XST, 225XST-I, 27XST, 24XST

- Synchronizes strobe lights to 72 flashes per minute
- 24VDC operating voltage
- Safe area installation only, but compatible with all hazardous and explosion proof strobe signals
- Mounts on double-gang electrical box
- UL1971 Approved for hearing impaired applications
- Polarized design allows for remote supervision
- Compatible with select Federal Signal strobe lights

RANGE CERTIFICATIONS
AUDIBLE SIGNALS

CERTIFICATIONS ▶ PRODUCTS ▼											IP RATING
	G-SND	■	■	■		■		■	■	■		66
	G-SPK	■	■	■		■		■	■	■		66
	G-SPA	■	■	■		■		■	■	■		66
	350WBX			■			■					66/69K
	450EWBX			■	■							66/69K
	31X / 41X			■			■					
	FHEX			■							■	
	SST3GCX-MV			■								66/69K
	SSTX3-MV			■								66
	P-LS2B / P-LS2C	■	■			■		■	■			66
	110 / ES1 - 8W & 15W	■				■						66
	120 / ES4 / ES5 - 25W	■	■			■		■	■			66
	310X-MV			■			■					65

RANGE CERTIFICATIONS
AUDIBLE SIGNALS

CERTIFICATIONS ▶ PRODUCTS ▼											IP RATING
 300GCX / 300GCX-CN / 302GCX / 302GCX-CN			■							■	66/69K
 304GCX / 304GCX-CN / 314GCX / 314GCX-CN			■	■						■	66/69K
 AM300GCX / AM302GCX			■							■	66/69K
 AM15XD2			■								66/69K
 300X / 302X			■							■	66
 304X / 304X-CN / 314X / 314X-CN			■	■						■	66
 AM300X / AM302X			■							■	66
 ASHX / ASUX			■	■						■	66
 ASHH / ASUH			■	■						■	66
 MPEX			■	■						■	

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 wind-blown 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 hour salt spray (fog) test.

IP Ratings – **Ingress Protection**

Prefix	First #	Solids
IP	0	No Protection
IP	1	Over 50mm
IP	2	Over 12mm
IP	3	Over 2.5mm
IP	4	Over 1.0mm
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 Ratings For Federal Signal Products – **National Electrical Code**

CLASS	GROUP	ATMOSPHERES CONTAINING:	DIVISION 1	DIVISION 2
I	A	Acetylene		121X, 24XST, 24XSTHI, 27XST, 27XL, FSEX, FSEX-HI, 151XST, 154XST, 154XSTHI, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, USIX, 371DST, 371LEDX, 300X, 302X, AM300X, AM302X, 304X, 314X, 31X, 41X, FHEX, SSTX3-MV, ASHX, ASUX, 300GCX, 302GCX, 304GCX, 314GCX, AM15XD2, AM300GCX, AM302GCX, SST3GCX-MV, ASHH, ASUH, 350WBX, 450EWBX, E1, E2, 310X-MV, G-LED, G-STR, G-SND, G-SPK, G-SPA
I	B	Butadiene, Ethylene Oxides, Hydrogen, manufactured gases containing more than 30% Hydrogen (by volume), or Propylene Oxide.	300X, 302X, 304X, 314X, AM300X, AM302X, SSTX3-MV, ASHX, ASUX	121X, 24XST, 24XSTHI, 27XST, 27XL, FSEX, FSEX-HI, 151XST, 154XST, 154XSTHI, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, USIX, 371DST, 371LEDX, 300X, 302X, AM300X, AM302X, 304X, 314X, 31X, 41X, FHEX, SSTX3-MV, ASHX, ASUX, 300GCX, 302GCX, 304GCX, 314GCX, AM15XD2, AM300GCX, AM302GCX, SST3GCX-MV, ASHH, ASUH, 350WBX, 450EWBX, E1, E2, 310X-MV, G-LED, G-STR, G-SND, G-SPK, G-SPA
I	C	Acetaldehyde, Cyclopropane, Diethyl Ether, Ethylene or Unsymmetrical Dimethyl Hydrazine (UDMH)	121X, 24XST, 24XSTHI, 27XST, 27XL, 300X, 302X, 304X, 31X, 314X, 41X, AM300X, ASHX, ASUX, AM302X, FSEX, FSEX-HI, MPEX, E1, SSTX3-MV	121X, 24XST, 24XSTHI, 27XST, 27XL, FSEX, FSEX-HI, 151XST, 154XST, 154XSTHI, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, USIX, 371DST, 371LEDX, 300X, 302X, AM300X, AM302X, 304X, 314X, 31X, 41X, FHEX, SSTX3-MV, ASHX, ASUX, 300GCX, 302GCX, 304GCX, 314GCX, AM15XD2, AM300GCX, AM302GCX, SST3GCX-MV, ASHH, ASUH, 350WBX, 450EWBX, E1, E2, 310X-MV, G-LED, G-STR, G-SND, G-SPK, G-SPA
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.	121X, 24XST, 24XSTHI, 27XST, 27XL, 300X, 302X, 304X, 31X, 314X, 41X, AM300X, ASHX, ASUX, AM302X, FSEX, FSEX-HI, MPEX, E1, SSTX3-MV	121X, 24XST, 24XSTHI, 27XST, 27XL, FSEX, FSEX-HI, 151XST, 154XST, 154XSTHI, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, USIX, 371DST, 371LEDX, 300X, 302X, AM300X, AM302X, 304X, 314X, 31X, 41X, FHEX, SSTX3-MV, ASHX, ASUX, 300GCX, 302GCX, 304GCX, 314GCX, AM15XD2, AM300GCX, AM302GCX, SST3GCX-MV, ASHH, ASUH, 350WBX, 450EWBX, E1, E2, 310X-MV, G-LED, G-STR, G-SND, G-SPK, G-SPA
II	E	Metal Dust including Aluminum, Magnesium and their commercial alloys, and other metals of similar hazardous characteristics	24XST, 24XSTHI, 121X, 151XST, 154XSTHI, 191XL, 27XST, 27XL, 31X, 41X, MPEX, E1, 154XST, FSEX, FSEX-HI, FHEX	
II	F	Carbon Black, Charcoal, Coal or Coke Dust	24XST, 24XSTHI, 121X, 151XST, 154XSTHI, 191XL, 27XST, 27XL, 31X, 41X, MPEX, E1, 154XST, FSEX, FSEX-HI, FHEX	121X, 24XST, 24XSTHI, 27XST, 27XL, FSEX, FSEX-HI, 151XST, 154XST, 154XSTHI, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, USIX, 371DST, 371LEDX, 300X, 302X, AM300X, AM302X, 304X, 314X, 31X, 41X, FHEX, SSTX3-MV, ASHX, ASUX, 300GCX, 302GCX, 304GCX, 314GCX, AM15XD2, AM300GCX, AM302GCX, SST3GCX-MV, ASHH, ASUH, 350WBX, 450EWBX, E1, E2, 310X-MV, G-LED, G-STR, G-SND, G-SPK, G-SPA
II	G	Flour, Starch, Wood or Grain Dust	24XST, 24XSTHI, 121X, 151XST, 154XSTHI, 191XL, 27XST, 27XL, 31X, 41X, MPEX, E1, 154XST, FSEX, FSEX-HI, FHEX	121X, 24XST, 24XSTHI, 27XST, 27XL, FSEX, FSEX-HI, 151XST, 154XST, 154XSTHI, 191XL, 224XST, 224XST-HI, 225X, 225XL, 225XST, 225XST-I, USIX, 371DST, 371LEDX, 300X, 302X, AM300X, AM302X, 304X, 314X, 31X, 41X, FHEX, SSTX3-MV, ASHX, ASUX, 300GCX, 302GCX, 304GCX, 314GCX, AM15XD2, AM300GCX, AM302GCX, SST3GCX-MV, ASHH, ASUH, 350WBX, 450EWBX, E1, E2, 310X-MV, G-LED, G-STR, G-SND, G-SPK, G-SPA
III		All models approved for Class I and II are also approved for use in Class III		

NEC Zone Ratings for Federal Signal Products – **National Electrical Code**

MODEL	ZONE 1 GAS GROUP	ZONE 21 DUST GROUP	ZONE 2 GAS GROUP	ZONE 22 DUST GROUP
G-STR*	IIC	IIIC		
G-LED*	IIC	IIIC		
G-SPK*, G-SPA*, G-SND*	IIC	IIIC		
300GCX-CN			IIC	IIIC
302GCX-CN			IIC	IIIC
191XL-CN			IIC	IIIC

*Excludes Ex de configurations

ATEX / IECEx Ratings for Federal Signal Products

MODEL	ZONE 1 GAS GROUP	ZONE 21 DUST GROUP	ATEX	IECEX
G-STR	IIC	IIIC	X	X
G-LED	IIC	IIIC	X	X
G-SPK, G-SPA, G-SND	IIC	IIIC	X	X
120, ES4, ES5	IIB		X	X
110, ES1	IIB or IIC		X	
P-LS2B	IIB+H2	IIIC	X	X
P-LS2C	IIC	IIIC	X	X
WV450X, WV450XL	IIB+H2		X	X
2000 Series	IIB	IIIB	X	X

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