



ASHX

Explosion Proof Amplified Speaker

CPG Signals
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Description

Harrington Signal Inc. Model ASHX PowerTone® Explosion-proof Amplified Speaker is designed for use in hazardous locations. The unit produces a crisp, clear, high-decibel tone. The tone may be generated by a voice or tone generating system or by a compact, solid-state, plug-in card.

The speaker cone and projector are made of spun aluminum. The speaker driver, circuitry and tone card are contained in an explosion-proof housing. An internal gain control allows for volume adjustment. The amplified speaker is Listed for indoor and outdoor use, is NEMA 3 rated, and is finished in red enamel.

PowerTone® Model ASHX Amplified Speakers operate at 24 VDC and are polarized for connection to system supervised alarm notification circuits.

Weatherproof and corrosion-resistant surface mount speaker is required.

Application

The PowerTone® Amplified Speaker is well suited for signaling in hazardous areas with high ambient noise levels and where a unique audible signal is required. The amplified speaker is designed for locations where the danger of explosion or fire exists.

The speaker is suitable for use in National Electrical Code (NFPA 70): Class I, Groups B, C, D, Division 1 hazardous locations. When used in conjunction with a voice or tone generating system and a PTCK25 connector card, the speaker can produce multiple tones for various signal requirements.

For single tone applications the universal tone card may be used. The speaker may be used with any compatible 25 or 70Vrms audio system by using the PTCK25 or PTCK70 connector card. The speaker can be indoor or outdoor mounted. The ASHX is NEMA 3 rated.



Features

- 24 VDC polarized operation.
- UL sound pressure level. (see chart)
- Multiple tone capability (with PowerTone® System & PTCK).
- Wide selection of tones (universal tone cards).
- Voice capable with PTCK audio interface card.
- Spun aluminum cone and projector.
- Rugged explosion-proof circuitry housing.
- Internal gain control.
- Operating Current: 24VDC .225A
- Temperature Range: -40° to 151°F.

Ordering Information

| Model Number | Part Number | Description |
|--------------|-------------|--|
| ASHX-24SMR | ASHX-24SMR | Amplified Speaker, 24 VDC or 25/70 VRMS, Red |
| U-TC | U-TC | Universal Tone Card - Field selectable to desired tone |
| PTCK25 | PTCK25 | 25Vrms Connector Card - Connects amplified speakers to 25Vrms audio system |
| PTCK70 | PTCK70 | 70Vrms Connector Card - Connects amplified speakers to 70Vrms audio system |
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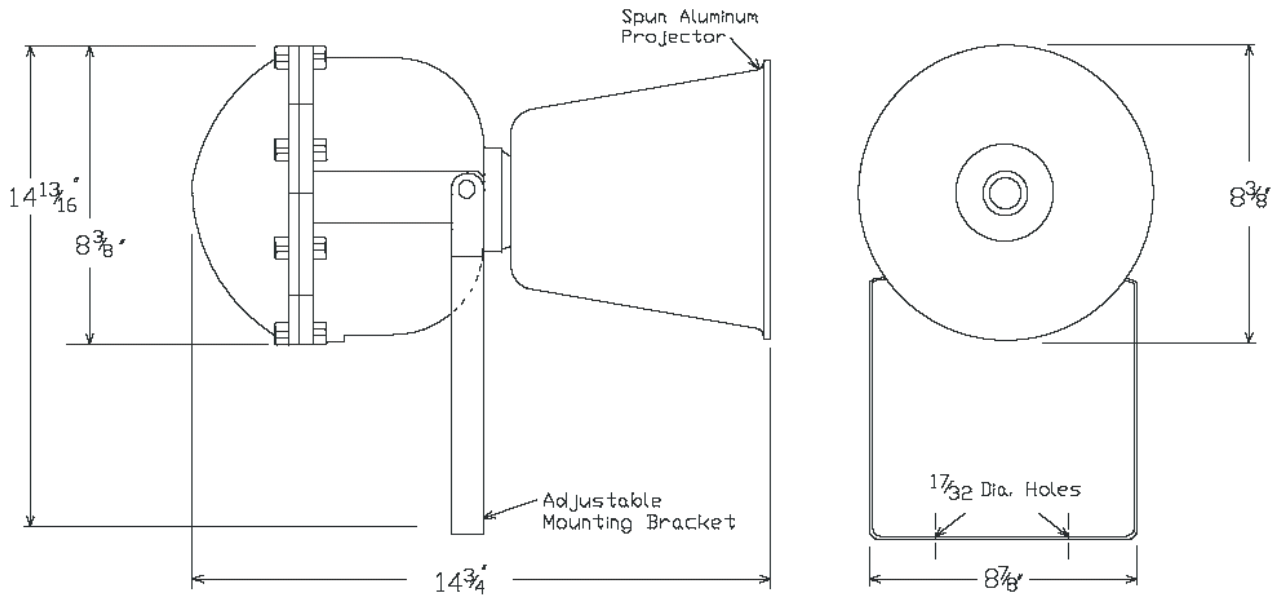
PowerTone

Explosion Proof Amplified Speaker

| Tone Card Sound (Model UTC) | | | Audible Frequency (Hz) | Repetition rate (cycles/min) | Audibility | |
|-----------------------------|---------------------|---|------------------------|------------------------------|-------------------|-------------------------|
| Selection | Name | Description | | | dB(A) Sound Power | UL dB(A) Sound Pressure |
| TM1 | Wail | Conventional siren | 550-1250 | 11 | 117.3 | 96.7 |
| TM2 | Yelp | Rapid siren | 550-1250 | 3.3 Hz | 117.4 | 96.8 |
| TM3 | Hi-Lo | Alternating high and low | 560 and 760 | 50 | 116.3 | 95.7 |
| TM4 | Bell | Bell, struck repeatedly | 800 | 50 | 114.1 | 93.5 |
| TM5 | Yeow | Descending high to low, repeated | 1300 and 550 | 36 | 117.3 | 96.7 |
| TM6 | Horn | Steady horn | 470 | Continuous | 112.2 | 91.6 |
| TM7 | Beep | Slow intermittent horn | 470 | 50 | 111.1 | 90.5 |
| TM8 | Stutter | Rapid intermittent horn | 470 | 5 | 111.4 | 90.8 |
| TM9 | Slow Whoop | Slow ascending, low to high – repeated | 420 and 1160 | 15 | 115.9 | 95.3 |
| TM10 | Temporal Slow Whoop | NFPA coded slow whoop (fire alarm use only) | 420 and 1160 | 15 | 113.0 | 92.4 |
| Connector card model | | Rated voltage | | | | |
| PTCK25 | | 25 VRMS | | | 107.9 | 93.3 |
| PTCK70 | | 70 VRMS | | | 107.4 | 92.8 |

Specifications

Alarm notification appliances shall be explosion-proof amplified speakers using solid-state circuitry. The amplified speakers shall operate at 24 VDC and be polarized for DC supervision. The unit shall be designed for use in hazardous locations/explosion-proof locations. The amplified speaker driver and circuitry shall be contained in an explosion-proof housing. The amplified speaker shall be NEMA 3 rated. The speaker cone and projector shall be of spun aluminum. The entire unit shall have a red finish. The amplified speakers shall be capable of clearly reproducing any number of HSI tones. The tones shall be selectable by connection to a voice or tone generating system using a PTCK25 connector card (for single or universal tone card (for single tone). The amplified speakers shall be compatible with any 25 or 70Vrms audio system using the PTCK25 or PTCK 70 connector card. The amplified speakers shall have an internal gain control for tone output adjustment. The amplified speakers shall be capable of indoor or outdoor mounting. The amplified speakers shall be suitable for use in National Electrical Code (NFPA 70); Class I, Groups B, C, and D, Division 1 hazardous locations. The speakers shall be UL Listed for fire alarm signaling use. Alarm notification appliances shall be Harrington Signal Inc Model ASHX PowerTone® amplified speakers.



NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.