

## Series AS Audible Strobe Appliances and Series AH Audibles



**SERIES AS**



**SERIES AH**

### Description

The Wheelock patented 2-wire Series AS Audible Strobe Appliances and Series AH Audibles offer more features with low current draw.

Strobe options for wall mount models include 1575cd or the Wheelock patented MCW multi-candela wall strobes with field selectable candela settings of 15/30/75/110cd, or the high intensity MCWH strobe with field selectable 135/185cd.

Ceiling mount models incorporate Wheelock's patented MCC multi-candela ceiling strobe with field selectable intensities of 15/30/75/95cd or the high intensity MCCH strobe with field selectable 115/177cd.

The audible provides a selectable choice of either a continuous horn or temporal pattern (Code 3) when constant voltage from a Fire Alarm Panel (FACP) is applied. Each tone has 3 dBA settings to choose from.

When used with the Wheelock Series SM or DSM Sync Module or Wheelock PS-24-8MC Power Supplies with Patented Sync Protocol, synchronization of the continuous horn tone provides the temporal (code 3) tone (mandated by NFPA 72) simultaneously for all audible appliances. This ensures a distinct temporal (code 3) pattern when 2 or more audibles are within hearing distance. If not synchronized the temporal sound could overlap and not be distinctive. At the same time the strobes will be synchronized. This provides the ability to comply with ADA guidelines concerning photosensitive epilepsy and the NFPA standards when installing 2 or more visual appliances within the field of view all of this plus the ability to silence the audible is achieved by using only 2 wire.

### Features

- Approvals include: UL Standard 1971, UL Standard 464 New York City (MEA), California State Fire Marshal (CSFM), Factory Mutual (FM), and Chicago (BFP). See approvals by model in Specifications and Ordering Information
- ADA/NFPA/UFC/ANSI Compliant
- Wall mount models are available with Field Selectable Candela Settings of 15/30/75/110cd or 135/185cd (Multi-Candela models) or 1575cd (single candela model)
- Ceiling mount models are available with field selectable candela settings of 15/30/75/95cd or 115/177cd (multi-candela ceiling models)
- Selectable Continuous Horn or Temporal (Code 3).
- 3 Selectable dBA settings (99, 95 and 90 dBA) in both tones
- Patented 2-Wire Audible Strobe Appliance.
- Patented Universal Mounting Plate
- Weatherproof models are available for outdoor use
- Strobes produce 1 flash per second over the regulated voltage range
- 12 and 24 VDC models with wide UL "Regulated Voltage Range" using filtered DC or unfiltered FWR input voltage
- The strobes can be synchronized using Wheelock's sync modules or power supplies with built in sync protocol
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wires

*For Weatherproof Series AS, See Datasheet S9004*



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S5391



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APPROVED

NOTE: All CAUTIONS and WARNINGS are identified by the symbol ▲. All warnings are printed in bold capital letters.

▲ WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. VISIT WWW.COOPERWHEELLOCK.COM OR CONTACT COOPER WHEELLOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

### General Notes:

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range". Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second and ADA Guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective Strobe intensity based on UL Standard 1971.
- Series NS Strobe products are listed under UL Standard 1971 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%).
- Series NH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).
- **"Regulated Voltage Range" is the newest terminology used by UL to identify the voltage range. Prior to this change UL used the terminology "Listed Voltage Range".**

| Model Number | Input Voltage VDC | Regulated Voltage Range VDC/FWR | Strobe Candela (cd) |
|--------------|-------------------|---------------------------------|---------------------|
| AS-24MCW     | 24                | 16.0 - 33.0                     | 15/30/75/110        |
| AS-24MCCH    | 24                | 16.0 - 33.0                     | 115/177             |
| AS-241575W   | 24                | 16.0 - 33.0                     | 15 (75 on Axis)     |
| AS-121575W   | 12                | 8.0 – 17.5                      | 15 (75 on Axis)     |
| AS-24MCC     | 24                | 16.0 - 33.0                     | 15/30/75/95         |
| AS-24MCWH    | 24                | 16.0 - 33.0                     | 135/185             |
| ASWP-2475W   | 24                | 16.0 - 33.0                     | 75 @ -31°F          |

| Description     | Volume | Reverberant dBA Per UL 464 @ 10 ft. | Anechoic dBA @ 10 ft. |
|-----------------|--------|-------------------------------------|-----------------------|
| Continuous Horn | High   | 91                                  | 99                    |
|                 | Medium | 88                                  | 95                    |
|                 | Low    | 83                                  | 90                    |
| Code 3 Horn     | High   | 87                                  | 99                    |
|                 | Medium | 84                                  | 95                    |
|                 | Low    | 79                                  | 90                    |

| 24 VDC Models |         | Audible      | Wall Mount Audible Strobe Models |              |              |              |              |              |              | Ceiling Mount Audible Strobe Models |              |              |              |              |              |
|---------------|---------|--------------|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
|               |         | AH-24        | AS-241575W                       | AS-24MCW     |              |              |              | AS-24MCWH    |              | AS-24MCC                            |              |              |              | AS-24MCCH    |              |
|               |         |              | 1575cd                           | 15cd         | 30cd         | 75cd         | 110cd        | 135cd        | 185cd        | 15cd                                | 30cd         | 75cd         | 95cd         | 115cd        | 177cd        |
| High (99) dBA | 24 vdc  | <b>0.062</b> | <b>0.100</b>                     | <b>0.080</b> | <b>0.102</b> | <b>0.150</b> | <b>0.194</b> | <b>0.250</b> | <b>0.320</b> | <b>0.088</b>                        | <b>0.114</b> | <b>0.165</b> | <b>0.205</b> | <b>0.250</b> | <b>0.320</b> |
|               | UL max* | 0.080        | 0.121                            | 0.088        | 0.125        | 0.200        | 0.267        | 0.355        | 0.480        | 0.095                               | 0.138        | 0.221        | 0.285        | 0.355        | 0.480        |
| Med (95) dBA  | 24 vdc  | <b>0.033</b> | <b>0.080</b>                     | <b>0.060</b> | <b>0.084</b> | <b>0.132</b> | <b>0.173</b> | <b>0.230</b> | <b>0.305</b> | <b>0.066</b>                        | <b>0.092</b> | <b>0.145</b> | <b>0.186</b> | <b>0.230</b> | <b>0.305</b> |
|               | UL max* | 0.043        | 0.107                            | 0.074        | 0.110        | 0.190        | 0.253        | 0.340        | 0.465        | 0.080                               | 0.122        | 0.201        | 0.269        | 0.340        | 0.465        |
| Low (90) dBA  | 24 vdc  | <b>0.017</b> | <b>0.072</b>                     | <b>0.052</b> | <b>0.076</b> | <b>0.121</b> | <b>0.158</b> | <b>0.220</b> | <b>0.295</b> | <b>0.056</b>                        | <b>0.082</b> | <b>0.132</b> | <b>0.173</b> | <b>0.220</b> | <b>0.295</b> |
|               | UL max* | 0.021        | 0.100                            | 0.068        | 0.105        | 0.182        | 0.245        | 0.335        | 0.460        | 0.074                               | 0.113        | 0.198        | 0.263        | 0.335        | 0.460        |

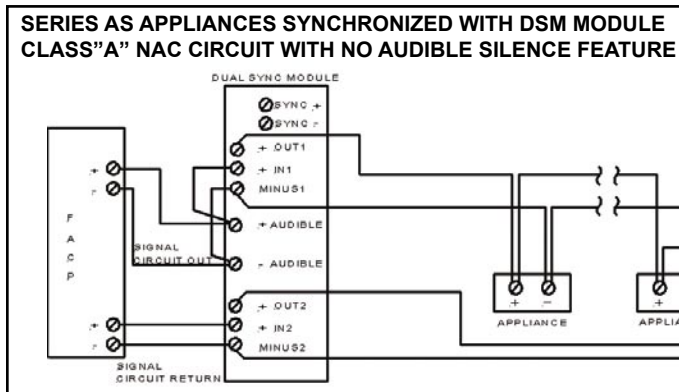
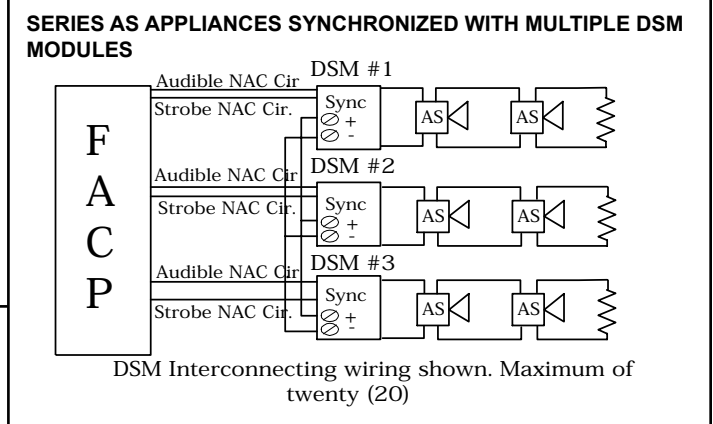
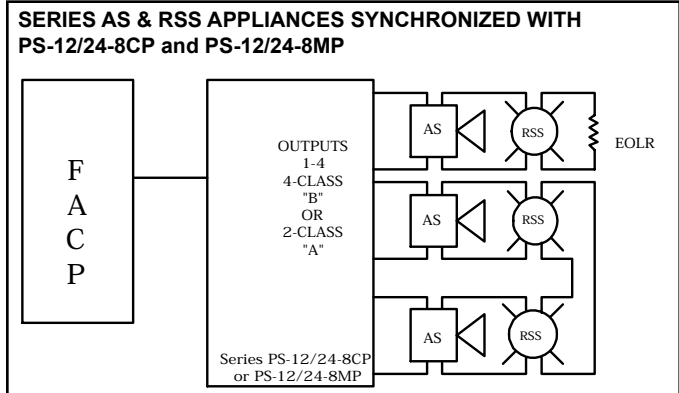
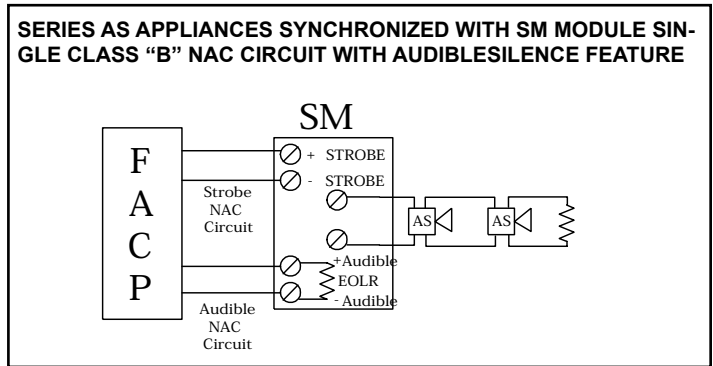
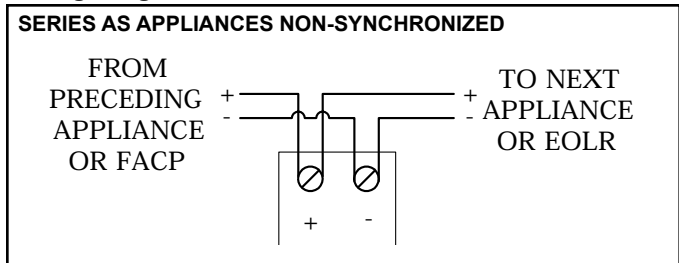
| 12 VDC Models |         | Audible | Wall Mount Audible Strobe |
|---------------|---------|---------|---------------------------|
|               |         | AH-12   | AS-121575W                |
| High (99) dBA | 12 vdc  | 0.163   | 0.260                     |
|               | UL max* | 0.192   | 0.320                     |
| Med (95) dBA  | 12 vdc  | 0.076   | 0.195                     |
|               | UL max* | 0.108   | 0.275                     |
| Low (90) dBA  | 12 vdc  | 0.039   | 0.175                     |
|               | UL max* | 0.058   | 0.265                     |

| Voltage  | High dBA Setting (99) dBA | Medium dBA Setting (95) dBA | Low dBA Setting (90) dBA |
|----------|---------------------------|-----------------------------|--------------------------|
| 24.0 VDC | 0.128                     | 0.105                       | 0.098                    |
| UL Max*  | 0.168                     | 0.155                       | 0.150                    |

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

## Wiring Diagrams #



# For detail using SM or DSM Sync Module refer to Data Sheet S3000 or Installation Instructions P83123 for SM and P83177 for DSM. For wiring information on the power supplies refer to Installation Instructions P84662 for PS-24-8MC.

## Specifications and Ordering Information

| Model Number    | Order Code | Strobe Candela  | Non-Sync | Sync w/SM, DSM or PS-24-8MC | 24 VDC | 12 VDC | Wall Mount | Ceiling Mount | Mounting Options***      | Agency Approvals |     |      |    |     |
|-----------------|------------|-----------------|----------|-----------------------------|--------|--------|------------|---------------|--------------------------|------------------|-----|------|----|-----|
|                 |            |                 |          |                             |        |        |            |               |                          | UL               | MEA | CSFM | FM | BFP |
| AS-24MCW-FR     | 9024       | 15/30/75/110    | X        | X                           | X      | -      | X          | -             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AS-24MCW-FW     | 9025       | 15/30/75/110    | X        | X                           | X      | -      | X          | -             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AS-24MCWH-FR    | 3468       | 135/185         | X        | X                           | X      | -      | X          | -             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | *   |
| AS-24MCWH-FW    | 3469       | 135/185         | X        | X                           | X      | -      | X          | -             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | *   |
| AS-241575W-FR   | 7405       | 15 (75 on Axis) | X        | X                           | X      | -      | X          | -             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AS-121575W-FR   | 7410       | 15 (75 on Axis) | X        | X                           | -      | X      | X          | -             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AS-24MCC-FR     | 3161       | 15/30/75/95     | X        | X                           | X      | -      | -          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | *   |
| AS-24MCC-FW     | 3162       | 15/30/75/95     | X        | X                           | X      | -      | -          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | *   |
| AS-24MCCH-FW    | 3467       | 115/177         | X        | X                           | X      | -      | -          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | *   |
| ASWP-2475W-FR** | 9012       | 75 @ -31°F      | X        | X                           | X      | -      | X          | -             | I (see Data Sheet S9004) | X                | X   | X    | X  | X   |
| AH-24-R         | 7892       | -               | X        | X                           | X      | -      | X          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AH-24-W         | 7893       | -               | X        | X                           | X      | -      | X          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AH-12-R         | 7891       | -               | X        | X                           | -      | X      | X          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AH-12-W         | 7894       | -               | X        | X                           | -      | X      | X          | X             | A,B,D,E,F,G,H,J,N,O,R,X  | X                | X   | X    | X  | X   |
| AH-24WP-R**     | 7416       | -               | X        | X                           | X      | -      | X          | X             | K                        | X                | X   | X    |    | X   |
| AH-12WP-R**     | 7415       | -               | X        | X                           | -      | X      | X          | X             | K                        | X                | X   | X    |    | X   |

\*\*For Weatherproof Series AS/AH specifications see data sheet S9004.

\*\*\*Refer to Data Sheet S7000 for Mounting Options.

Note: Models are available in either Red or White. Contact Customer Service for Order Code and Delivery.

\*PENDING

**NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.**

## **Architects and Engineers Specifications**

The notification appliances shall be Wheelock Series AS Audible Strobe appliances and Series AH Audible appliances or approved equals. The Series AS Audible be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series AH Audible shall be UL Listed under Standard 464 (Fire Protective Signaling). Both shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

The audible portion of the appliance shall have a minimum of three (3) field selectable settings for dBA levels and shall have a choice of continuous or temporal (Code 3) audible outputs.

The strobe portion of the appliance shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. The Series AS shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have field selectable settings and shall be rated per UL Standard 1971 at 15/30/75/110 or 135/185 candela for wall mount and 15/30/75/95 or 115/177 candela for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 1575 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on-axis is required (e.g. ADA compliance).

When synchronization is required, the appliance shall be compatible with Wheelock's SM, DSM Sync Modules or Wheelock PS-24-8MC Power Supplies with built-in Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync module or Power Supply fails to operate, (i.e., contacts remain closed), the strobe shall revert to a non-synchronized flash-rate. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock synchronization.

The Series AS Audible Strobe and Series AH Audible shall incorporate a Patented Universal Mounting Plate that shall allow mounting to a single-gang, double-gang, 4-inch square, 100mm European type backboxes, or the SHBB Surface Backbox. If required, an NATP (Notification Appliance Trimplate) shall be provided.

All notification appliances shall be backward compatible.



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