



## Finally, Design and Safety Meet...



### Description:

The Wheelock® Exceder™ Series of notification appliances feature a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from its comprehensive feature list, including the most candela options in one appliance, low current draw, no tools needed for setting changes, voltage test points, 12/24 VDC operation, universal mounting base and multiple mounting options for both new and retrofit construction.

The Wheelock® Exceder™ Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification circuit. All strobe models feature an industry first of 8 candela settings on a single appliance. Models with an audible feature 3 sound settings (90, 95, 99 dB). All switches to change settings, can be set without the use of a tool and are located behind the appliance to prevent tampering. Wall models feature voltage test points to take readings with a voltage meter for troubleshooting and AHJ inspection.

The Wheelock® Exceder™ Series of notification appliances feature a snap-on base that is designed to simplify the installation and testing of horns, strobes, and combination horn strobes. The separate mounting base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and the surface is finished. Once the surrounding work is complete, the appliance can be simply installed by snapping it on the base. Resettable shorting contacts in the base, which provide continuity for circuit testing, are opened when the appliance is installed. Any removal of the appliance will indicate a trouble condition on that circuit at the control panel that supervises the circuit. The same base is used for all Exceder™ Series appliances to provide consistent installation and easy replacement of appliances if required. Wall models provide an optional locking screw for extra secure installation, while the ceiling models provide a captivated screw to prevent the screw from falling during installation.

- Save up to **48%** in current draw\*
- Up to **9** models now in **1** appliance
- Save up to **14%** cost of installation\*\*


- Sleek Modern Aesthetics
- Finger Slide Switches
- Voltage Test Points
- Multiple Voltages
- 3 Audible Settings  
90, 95, 99 dB
- 8 Candela Settings  
Wall - 15/1575/30/75/95/110/135/185  
Ceiling - 15/30/60/75/95/115/150/177
- Universal Mounting Base  
Ceiling and Wall  
Mounts to 5 Backbox Types
- Environmentally Friendly  
Low Current Draw

### Compatibility and Requirements

- Synchronize using the Wheelock® Sync Modules or panels with built-in Wheelock® Patented Sync Protocol
- Compatible with UL “Regulated Voltage” using filtered DC or unfiltered VRMS input voltage
- Strobes produce 1 flash per second over the “Regulated Voltage” range

\* Compared to competitive models

\*\* Compared to previous models

**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.COOPERNOTIFICATION.COM](http://WWW.COOPERNOTIFICATION.COM) OR CONTACT COOPER NOTIFICATION 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:

General Notes:

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range".
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series Exceder Strobe products are under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 85% (± 2%) UL 464 (UL 1971).
- Series Exceder horns are under UL Standard 464 for audible signal appliances (Indoor use only).

## Low Current Draw = Fewer Power Supplies

Strobe Ratings per UL Standard 1971

		UL Max Current*													
		24 VDC / 24 FWR												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0-33.0	0.057	0.070	0.085		0.135	0.163	0.182		0.205			0.253	0.110	0.140
STC**	8.0-33.0	0.057		0.085	0.105	0.142	0.163		0.182		0.205	0.253		0.115	

Horn Strobe Ratings per UL 1971 & UL 464 at 24 VDC

		UL Max Current* at 99 dBA													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.082	0.095	0.102		0.148	0.176	0.197		0.242			0.282	0.125	0.159
HSC**	8.0-33.0	0.082		0.108	0.108	0.156	0.185		0.210		0.245	0.282		0.127	

		UL Max Current* at 95 dBA													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.073	0.083	0.087		0.139	0.163	0.186		0.230			0.272	0.122	0.153
HSC**	8.0-33.0	0.073		0.093	0.093	0.142	0.163		0.186		0.230	0.272		0.122	

		UL Max Current* at 90 dBA													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.065	0.075	0.084		0.136	0.157	0.184		0.226			0.267	0.120	0.148
HSC**	8.0-33.0	0.065		0.084	0.084	0.136	0.157		0.184		0.226	0.267		0.120	

Horn Ratings per UL 464

Model	Regulated Voltage Range VDC	99 dB	95 dB	90 dB
HN	16-33.0	0.064	0.044	0.022
HNC**	16-33.0	0.064	0.044	0.022
HN	8.0-17.5	0.047	0.026	0.017
HNC**	8.0-17.5	0.047	0.026	0.017



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

\*\* Ceiling Models have not completed testing for agency approval at UL. Current draw is provided for reference only.

## Specification & Ordering Information

Model	Strobe Candela	Sync w/ SM, DSM or PS-6 & PS-8	12/24 VDC	Mounting Options
<b>Horn Strobes</b>				
HSR	15/1575/30/75/95/110/135/185	X	X	UMB*
HSW	15/1575/30/75/95/110/135/185	X	X	UMB*
HSRC	15/30/60/75/95/115/150/177	X	X	UMB*
HSWC	15/30/60/75/95/115/150/177	X	X	UMB*
<b>Strobes</b>				
<b>STR</b>	<b>15</b> /1575/30/75/95/110/135/185	X	X	UMB*
STW	15/1575/30/75/95/110/135/185	X	X	UMB*
STRC	15/30/60/75/95/115/150/177	X	X	UMB*
STWC	15/30/60/75/95/115/150/177	X	X	UMB*
<b>Horn</b>				
HNR		X	X	UMB*
HNW		X	X	UMB*
HNRC		X	X	UMB*
HNWC		X	X	UMB*

\*UMB = Universal Mounting Base

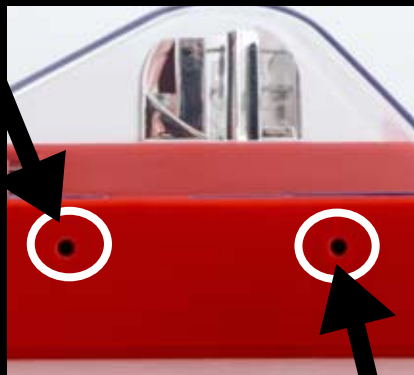
### Model Legend

HN = Horn  
**ST = Strobe**  
 HS = Horn Strobe  
 C = Ceiling Mount  
 W = White  
**R = Red**

Example 1: STRC = Strobe, Red, Ceiling Mount  
 Example 2: HSR = Horn Strobe, Red, Wall Mount  
 Example 3: HSW = Horn Strobe, White, Wall Mount



Example: HNR



Voltage test points for quick troubleshooting and easy spot checking



8 candela settings



\*UMB

Common base for wall and ceiling with 5 mounting options

**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® Exceder™ Series HS Audible Strobe appliances, Series ST Visual Strobe appliances and Series HN Audible appliances or approved equals. The Series HS and ST Strobes shall be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series HS and HN Audibles shall be UL Listed under Standard 464 (Fire Protective Signaling). All Series 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) with the ability to operate from 8 to 33 VDC. Indoor wall models shall incorporate voltage test points for easy voltage inspection.

The Series HS Audible Strobe and ST Visual Strobe appliances 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 shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have 8 field selectable settings at 15, 15/75, 30, 75, 95, 115, 135, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 candela for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 15/75 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on-axis is required (e.g. ADA compliance). Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The audible 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 Series HS Audible Strobe, ST Strobe and Series HN Audible shall incorporate a patent pending Universal Mounting Base that shall allow mounting to a single-gang, double-gang, 4-inch square, 3.5-inch octal, 4-inch octal or 100mm European type back boxes. Two wire appliance wiring shall be capable of directly connecting to the mounting base. Continuity checking of the entire NAC circuit prior to attaching any notification appliances shall be allowed. A dust cover shall fit and protect the mounting plate. The dust cover shall be easily removed when the appliance is installed over the base. Removal of an appliance shall result in an alarm condition by the Fire Alarm Control Panel (FACP). The mounting base shall be the same base among all horn, strobe, horn strobe, wall and ceiling models. All notification appliances shall be backwards compatible.

The Series HS and ST wall models shall have a low profile measuring 5.24" H x 4.58" W x 2.19" D. Series HN wall shall measure 5.24" H x 4.58" W x 1.6" D. The Series HSC and STC shall be round and have a low profile with a diameter of 6.68" x 2.63" D. Series HNC ceiling shall have a diameter of 6.68" x 1.50" D.

When synchronization is required, the appliance shall be compatible with Wheelock®'s SM, DSM Sync Modules, Wheelock® Power Supplies or other manufacturer's panels with built-in Wheelock® Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flash-rate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock® synchronization protocol.

**Wall Appliances** – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM)

**Ceiling Appliances** – Pending UL Standard 1971, Pending UL Standard 464



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION  
3 YEAR WARRANTY

### Exceder - Spec Sheet 01/09

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