

# Exceder Colored Lens Strobes



## Description

Wheelock Exceder™ colored lens strobe appliances are designed to offer easy installation and sleek modern esthetics. The appliances' comprehensive feature list includes 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 Mass Notification strobes are available with amber, blue, red, or green lenses through special order.

The Wheelock Exceder colored lens appliances incorporate high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification appliance circuit. All strobe models feature an industry first of 8 candela settings on a single appliance. 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 wall and ceiling colored lens strobe appliances feature a Universal Mounting Base (UMB) designed to simplify the installation and testing. The separate universal mounting base can be pre-wired to allow full testing of circuit wiring before the appliance is installed and the surface is finished. It comes complete with a Contact Cover for protection against dirt, dust, paint and damage to the contacts.

All inputs are compatible with standard supervision of circuit wiring by an FACP and provide a synchronized strobe appliance when used in conjunction with a Wheelock Dual Sync Module (DSM) or Power Supply with patented sync protocol.

The colored lens strobe products are listed under UL Standard 1638 for general signaling and the amber lens strobe has been tested to meet UL 1971 light distribution. These appliances are suitable for indoor applications.

**EAT•N**

*Powering Business Worldwide*

**- Save up to 48% in current draw\***  
**- Up to 8 models now in 1 appliance**  
**- Save up to 14% cost of installation\*\***

\* Compared to competitor models

\*\* Compared to previous models

**Features**

- Choice of strobe lens colors – amber, blue, green, red
- Special Lettering Available
- 8 Candela Settings in 1 Device
  - Field selectable candela settings of 15, 19, 30, 75, 95, 110, 135, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 candela for ceiling mount (177 candela not available for amber lens models)
- Indoor 24VDC models with UL “Regulated Voltage” work on 16-33 VDC using filtered DC or unfiltered FWR input voltage
- Mounts to 5 different types of backboxes: 1 gang, 2 gang, 4” sq, 3.5” octal & 4” octal boxes (100 • mm for international customers)
- Strobe Synchronization Components
  - Meet synchronizing standards with Wheelock’s DSM Sync Modules, Power Supplies or SAFEPATH products
- Compliance
  - UL 1638, Light output meets UL 1971, ULC-S526
- Applications
  - Designed for effective alerting of employees or personnel in commercial, industrial, military or government applications, the amber strobes are ideal for Mass Notification and Emergency Communications.

**Note:** Please read these specifications and associated installation instructions, before using, specifying, or installing this product. Visit [Eaton.com/massnotification](http://Eaton.com/massnotification) for current installation instructions.

**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 1971.

**Architects and Engineers Specifications**

The notification appliances shall be Wheelock® Exceder™ ST Visual Strobe Colored Lens appliances or approved equals. The ST Strobes Colored Lens appliances shall be listed for UL Standard 1638, the Amber Lens Strobe shall be tested to meet UL 1971 Light Distribution. 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 ST Strobe Colored Lens 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, 19, 30, 75, 95, 110, 135, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 (177 not available on Amber Lens Strobe) candela for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The ST Strobe Colored Lens shall incorporate a patented 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. Product shall come with Contact Cover to protect contact springs. Removal of an appliance shall result in a supervision fault 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 ST Colored Lens wall models shall have a low profile measuring 5.24” H x 4.58” W x 2.19” D. The Series STC shall be round and have a low profile with a diameter of 6.68” x 2.63” D.

When synchronization is required, the appliance shall be compatible with 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.

**Table 1. Strobe Ratings**

Exceder LED Strobes		UL Max Current <sup>a</sup>													
		24 VDC/24 FWR										12VDC			
Model	Regulated Voltage Range VDC	15	19	30	60	75	95	110	115	135	150	177	185	15	19
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 <sup>b</sup>	8.0-33.0	0.061		0.085	0.103	0.135	0.163		0.182		0.205	0.253		0.110	
STC-A	8.0-33.0	0.085		0.103	0.135	0.212	0.214		0.215		0.256			0.142	

**Table 2. Specification & Ordering Information**

Model	Strobe Candela	Red	White	Lettering	Mounting Options
<b>Strobes</b>					
STW-NA	15/19/30/75/95/110/135/185		X	No Lettering	Universal Mounting Base
STWC-NA	15/30/60/75/115/150		X	No Lettering	Universal Mounting Base
STR-NA	15/19/30/75/95/110/135/185	X		No Lettering	Universal Mounting Base
STRC-NA	15/30/60/75/115/150	X		No Lettering	Universal Mounting Base
STW-NB	15/19/30/75/95/110/135/185		X	No Lettering	Universal Mounting Base
STWC-NB	15/30/60/75/95/115/150/177		X	No Lettering	Universal Mounting Base
STR-NB	15/19/30/75/95/110/135/185	X		No Lettering	Universal Mounting Base
STRC-NB	15/30/60/75/95/115/150/177	X		No Lettering	Universal Mounting Base
STW-NG	15/19/30/75/95/110/135/185		X	No Lettering	Universal Mounting Base
STWC-NG	15/30/60/75/95/115/150/177		X	No Lettering	Universal Mounting Base
STR-NG	15/19/30/75/95/110/135/185	X		No Lettering	Universal Mounting Base
STRC-NG	15/30/60/75/95/115/150/177	X		No Lettering	Universal Mounting Base
STW-NR	15/19/30/75/95/110/135/185		X	No Lettering	Universal Mounting Base
STWC-NR	15/30/60/75/95/115/150/177		X	No Lettering	Universal Mounting Base
STR-NR	15/19/30/75/95/110/135/185	X		No Lettering	Universal Mounting Base
STRC-NR	15/30/60/75/95/115/150/177	X		No Lettering	Universal Mounting Base
STW-ALA	15/19/30/75/95/110/135/185		X	ALERT	Universal Mounting Base
STWC-ALA	15/30/60/75/115/150		X	ALERT	Universal Mounting Base
STR-ALA	15/19/30/75/95/110/135/185	X		ALERT	Universal Mounting Base
STW-AB	15/19/30/75/95/110/135/185		X	AGENT	Universal Mounting Base
STWC-AB	15/30/60/75/95/115/150/177		X	AGENT	Universal Mounting Base
STR-AB	15/19/30/75/95/110/135/185	X		AGENT	Universal Mounting Base
STRC-AB	15/30/60/75/95/115/150/177	X		AGENT	Universal Mounting Base

<sup>a</sup> RMS current ratings are per UL maximum 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).

<sup>b</sup> Blue, Green, and Red lens models have the same candela as the clear lens.

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



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