



Helping People Take Action™

**SERIES RSS MULTI-CANDELA STROBE & SERIES RSSP MULTI-CANDELA STROBE PLATE**

## Description:

Wheelock's patented Series RSS and Series RSSP Multi-Candela Strobe Appliances and Strobe Plates offer a field selectable choice of four candela settings.

**One Wheelock Multi-Candela Strobe with field selectable settings of: 15, 30, 75 or 110 cd.**

These versatile Strobe Appliances will satisfy virtually all requirements for indoor, wall mount applications.

All models may be synchronized when used in conjunction with the Wheelock SM, DSM Sync Modules or the PS-12/24-8 Power Supply with Wheelock's Patented Sync Protocol. Synchronized strobes can eliminate possible restrictions on the number of strobes in the field of view. Wheelock's synchronized strobes offer an easy way to comply with ADA requirements concerning photosensitive epilepsy.

Wheelock's Series RSS Multi-Candela Strobes employ a Patented Integral Strobe Mounting Plate that can be mounted to a single gang, double gang, 4" square, 100mm European backboxes or the SHBB surface backbox. If the flush backbox has side or top space between it and the finished wall, the NATP (Notification Appliance Trimplate) may be used. It provides an additional .65" of trim for the Appliance. An attractive cover plate is provided for a clean, finished appearance on all models.

The Series RSSP Multi-Candela Strobe Plates are a cost effective way to retrofit required strobe appliances to bells, horns, chimes, multitones or speakers and are easily mounted to standard 4" backboxes or surface mounted with Wheelock's SBL2 surface backbox.



**WALL STROBE**



**SERIES RSSP REMOTE STROBE MOUNTING PLATES**

## Features:

- Approvals include: UL 1971, California State Fire Marshal (CSFM), New York City (MEA), Pending: Factory Mutual (FM) and Chicago (BFP).
- ADA / NFPA / ANSI compliant.
- Meets OSHA 29 Part 1910.165.
- Field Selectable Candela Settings: 15, 30, 75 or 110 cd
- Low current draw with temperature compensation to reduce power consumption and wiring costs.
- Strobes produce 1 flash per second over the regulated input voltage range.
- 24 VDC with wide New UL "Regulated Input Voltage Range" of 16-33VDC using filtered (DC) or unfiltered FWR Voltage.
- Wall Mount.
- Synchronize with Wheelock SM, DSM Sync Modules or PS-12/24-8 Power Supply with Wheelock's built-in Patented sync protocol.
- ZERO Inrush above Peak.
- Compatible with all Wheelock products.
- Fast installation with IN / OUT screw terminals using #12 to #18 AWG wires.

## Specifications and Ordering Information

Model Number	Order Code	Description	Mounting Options*
RSS-24MCW-FR	9400	Multi-Candela Strobe / 24V / Wall Mount / Red	B,D,E,F,G,H,J,N,O,R,X
RSS-24MCW-FW	9401	Multi-Candela Strobe / 24V / Wall Mount / White	B,D,E,F,G,H,J,N,O,R,
RSSP-24MCW-FR	9402	Multi-Candela Strobe Plate / 24V / Wall Mount / Red	D, E, Z

\*Refer to Data Sheet S7000 for Mounting Options.

**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. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS AND 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 the “Regulated Input Voltage Range”<sup>##</sup> of 16-33 VDC (for 24 VDC models). Note that NFPA-72 (1999) 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. Series RSS and RSSP Multi-Candela Strobe appliances are listed under UL 1971 for indoor use with a temperature range of 32° F to 120° F (0° C to 49° C) and maximum humidity of 85%.

<sup>##</sup>“Regulated Input 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	Input Voltage VDC	Regulated Input Voltage Range VDC & FWR	Strobe Candela (CD)
RSS-24MCW	24	16.0-33.0	15/30/75/110
RSSP-24MCW	24	16.0-33.0	15/30/75/110

Voltage	15cd	30cd	75cd	110cd
16.0 VDC	.067	.108	.209	.275
24.0 VDC	.047	.081	.128	.166
33.0 VDC	.040	.062	.092	.128

**Note: Inrush Current is less than Rated Peak Current**  
<sup>\*</sup>Average current based on actual Wheelock Production Testing @ 16, 24 & 33VDC.

Product	Series
Multitone Appliances	AMT, MT, MT4
Horns	AH, NH
Motor Bells	MB-G6/G10
Speakers	ET-1010/1080, E70, ET70
Chimes	CH70

Model <sup>##</sup>	Order Code	Input Voltage VDC	Average Current (AMPS) @ 24 VDC	Mounting Options <sup>***</sup>
SM-24-R	6369	24	.025	W
DSM-24-R	6374	24	.038	W
PS-12/24-8	8114	120 VAC		

<sup>##</sup>Series SM and DSM Sync Module circuits are rated for 3.0 amperes each at 24VDC. The maximum number of interconnected DSM modules is twenty (20). Refer to Data Sheet S3000 or Installation Instructions (P83123 for SM and P83177 for DSM). Refer to Data Sheet S9001 or Installation Instructions P83862 for PS-12/24-8 Power Supply  
<sup>\*\*\*</sup>Refer to Data Sheet S7000 for Mounting Options.

**Note: Wall and Ceiling Mount Models are Compatible**

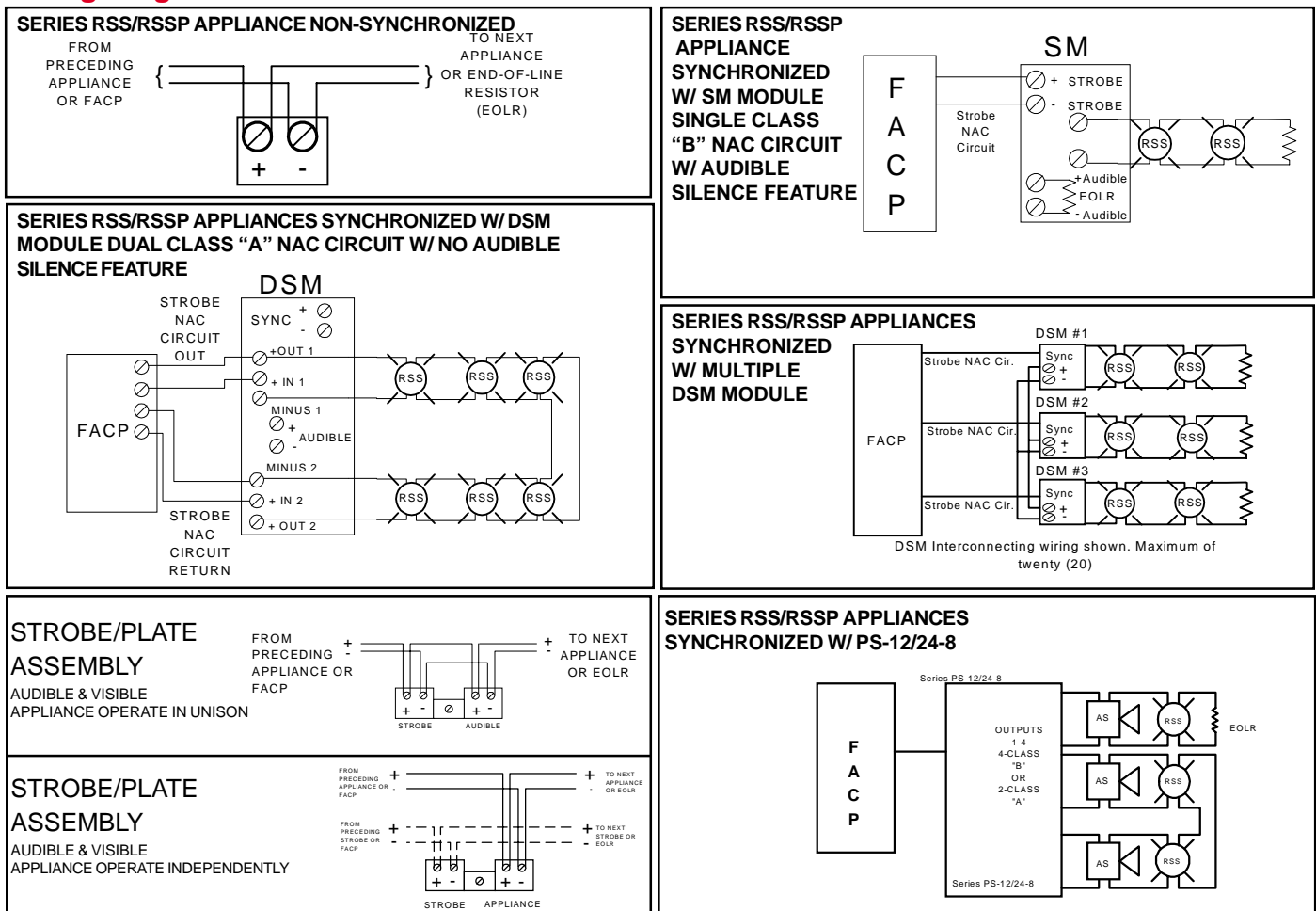
**Series RSS Multi-Candela/RSSP Multi-Candela/Series RSS Quick Reference Guide**

Model Number	Wall Mount	Ceiling Mount	Non-Sync	Sync w/ SM, DSM or PS-12/24-8	Strobe Candela	24 VDC	Model Color RED	Model Color White
RSS-24MCW-FR	X		X	X	15/30/75/110	X	X	
RSS-24MCW-FW	X		X	X	15/30/75/110	X		X
RSSP-24MCW-FR	X		X	X	15/30/75/110	X	X	
RSSP-24MCW-FW	X		X	X	15/30/75/110	X		X
RSS-2415C-FW		X	X	X	15	X		X
RSS-2430C-FW		X	X	X	30	X		X
RSS-2475C-FW		X	X	X	75	X		X
RSS-24100C-FW		X	X	X	100	X		X

**⚠ WARNING: CONTACT WHEELOCK FOR THE CURRENT "INSTALLATION INSTRUCTIONS" (P83911 ) AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:**

- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.
- FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR REGULATED INPUT VOLTAGE RANGE.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELA SETTINGS WILL EFFECT CURRENT DRAW. RECALCULATE CURRENT DRAW TO INSURE THAT THE TOTAL AVERAGE CURRENT AND TOTAL PEAK REQUIRED BY ALL APPLIANCES DO NOT EXCEED THE RATED CAPACITY OF THE POWER SOURCE OR FUSES.
- INSTALLATION OF 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- USE STROBES ONLY ON CIRCUITS WITH CONTINUOUSLY APPLIED OPERATING VOLTAGE. DO NOT USE STROBES ON CODED OR INTERRUPTED CIRCUITS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF AS THE STROBE MAY NOT FLASH.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, 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.
- CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.

## 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 PS-12/24-8 Power Supply refer to Installation Instructions P83862.

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

# Architects and Engineers Specifications

The visual notification appliances shall be Wheelock Series RSS Multi-Candela Strobe Appliances or approved equals. The Series RSS Multi-Candela shall meet and be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The strobe shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. The strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Input Voltage Range of 16 to 33 VDC for 24 VDC models. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP). When Strobe Plates are to be installed, they shall be the Wheelock Series RSSP Multi-Candela Strobe Plate and shall have the same electronic circuitry as the Wheelock Series RSS Multi-Candela.

All visual appliances shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. The Series RSS Multi-Candela strobe shall be of low current design and shall have Zero Inrush. The strobe intensity shall have a minimum of four (4) field selectable strobe settings and shall be rated per UL 1971 for: 15, 30, 75 or 110 candela (wall mount). The switch for selecting the candela setting shall be located on the rear of the appliance in order to prevent tampering from unauthorized persons. The strobe shall be designed for 24 VDC, two-wire operation and, when synchronization is required, shall be compatible with Wheelock's SM, DSM Sync Modules or PS-12/24-8 Power Supply 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 strobes shall be designed for indoor surface or flush mounting.

The Series RSS Multi-Candela Strobe Appliances shall incorporate a Patented Strobe 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. An attaching cover plate shall be provided to give the Appliance an attractive appearance. The Appliance shall not have any mounting holes or screw heads visible when the installation is completed.

The Series RSSP Multi-Candela Strobe Plate shall mount to either a standard 4 inch square backbox for flush mounting, or the Wheelock SBL2 backbox for surface mounting.

All notification appliances shall be backward compatible.

**WE SUPPORT AND ENCOURAGE NICET CERTIFICATION**

**MADE IN THE USA**

**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.**

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**3 YEAR WARRANTY**



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