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Thank you for using our products.
INSTALLATION INSTRUCTIONS
SERIES RSS STROBE APPLIANCES
(CEILING MOUNT VERSIONS)

Use this product according to this instruction manual. Please keep this instruction manual for future reference.

GENERAL:

Wheelock's Series RSS Strobes can provide a non-synchronized strobe signal when connected directly to a Fire Alarm Control Panel (FACP), or provide a synchronized strobe signal when used in conjunction with a Sync Module (SM), Dual Sync Module (DSM), or Power Supply (PS-12/24-8 **UL Only**). The Series RSS Strobe Appliances are UL Listed under Standard 1971 (Emergency Devices for the Hearing Impaired) for Indoor Fire Protection Service. The Series RSS Strobe Appliances are also ULC Listed under Standard CAN/ULC-S526-M87 for Visual Signaling Appliances. These Strobe models are listed for **ceiling mount only**, with the backboxes specified in these instructions (See Mounting Options). RSS models have an integrated Strobe Mounting Plate (SMP) that can be mounted to a single-gang, double-gang, 4" backbox, 100mm European backbox or SHBB surface backbox. The strobes use a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum visibility and reliability for effective visible signaling. All inputs are polarized for compatibility with standard reverse polarity supervision of circuit wiring by a FACP.

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

⚠ WARNING: THE RSS STROBE APPLIANCE IS A "FIRE ALARM DEVICE - DO NOT PAINT."

NOTE: All Canadian Installations should be in accordance with the Canadian Standard for the Installation of Fire Alarm Systems - CAN/ULC-S524-01 and Canadian Electrical Code, Part 1. Final acceptance is subject to Authorities Having Jurisdiction.

⚠ WARNING: READ THESE INSTRUCTIONS CAREFULLY. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING 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.

SPECIFICATIONS:

<i>Table 1: Ratings Per UL and ULC</i>					
Model	Regulated Voltage VDC/VRMS	Voltage Range Limit Per UL 1971 VDC/VRMS	Voltage Range Per CAN/ULC-S526-M87 VDC/VRMS	Strobe Candela (CD)	Mounting Options
RSS-2415C	24	16.0-33.0	20.0-31.0	15	A,B,C,D
RSS-2430C	24	16.0-33.0	20.0-31.0	30	A,B,C,D
RSS-2475C	24	16.0-33.0	20.0-31.0	75	A,B,C,D
RSS-24100C	24	16.0-33.0	20.0-31.0	100	A,B,C,D
RSS-2415CR	24	16.0-33.0	20.0-31.0	15	A,B,C,D
RSS-2430CR	24	16.0-33.0	20.0-31.0	30	A,B,C,D
RSS-2475CR	24	16.0-33.0	20.0-31.0	75	A,B,C,D
RSS-24100CR	24	16.0-33.0	20.0-31.0	100	A,B,C,D

NOTES:

1. Strobes will produce 1 flash per second over the "Regulated Voltage" range.
2. All models are UL Listed for indoor use with a temperature range of +32°F to +120°F (0°C to +49°C) and maximum humidity of 93% RH, ±2%.

NOTE: THE MAXIMUM WIRE IMPEDANCE BETWEEN STROBES SHALL NOT EXCEED 35 OHMS. THE MAXIMUM NUMBER OF STROBES ON A SINGLE NOTIFICATION APPLIANCE CIRCUIT SHALL NOT EXCEED 47.

⚠ WARNING: FOR UL APPLIICATIONS THESE APPLIANCES WERE TESTED TO THE OPERATING VOLTAGE LIMITS OF 16-33 VOLTS USING FILTERED (DC) OR UNFILTERED FULL-WAVE-RECTIFIED (FWR). DO NOT APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEM OPERATION.

⚠ WARNING: FOR ULC APPLIICATIONS THESE APPLIANCES WERE TESTED TO THE OPERATING VOLTAGE LIMITS OF 20-31 VOLTS USING FILTERED (DC) OR UNFILTERED FULL-WAVE-RECTIFIED (FWR). APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEM OPERATION.

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Table 2: UL/ULC Current Ratings (AMPS)

Rated Average Current *									
UL Voltage	ULC Voltage	2415C/CR		2430C/CR		2475C/CR		24100C/CR	
		MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS
16.0VDC	20.0VDC	0.105	0.126	0.158	0.192	0.330	0.394	0.375	0.473
24.0VDC	24.0VDC	0.075	0.107	0.107	0.156	0.215	0.315	0.250	0.382
33.0VDC	31.0VDC	0.058	0.095	0.090	0.136	0.165	0.289	0.200	0.358
16.0VRMS	20.0VRMS	-----	0.108	-----	0.195	-----	0.389	-----	0.492
24.0VRMS	24.0VRMS	-----	0.109	-----	0.162	-----	0.334	-----	0.402
33.0VRMS	31.0VRMS	-----	0.096	-----	0.142	-----	0.289	-----	0.340
Rated Peak Current **									
UL Voltage	ULC Voltage	2415C/CR		2430C/CR		2475C/CR		24100C/CR	
16.0VDC	20.0VDC	0.237		0.356		0.755		0.855	
24.0VDC	24.0VDC	0.246		0.368		0.760		0.880	
33.0VDC	31.0VDC	0.254		0.378		0.765		0.900	
16.0VRMS	20.0VRMS	0.239		0.360		0.760		0.860	
24.0VRMS	24.0VRMS	0.245		0.364		0.765		0.868	
33.0VRMS	31.0VRMS	0.252		0.384		0.770		0.892	
Rated Inrush Current ***									
UL Voltage	ULC Voltage	2415C/CR		2430C/CR		2475C/CR		24100C/CR	
16.0VDC	20.0VDC	0.110		0.110		0.110		0.110	
24.0VDC	24.0VDC	0.165		0.165		0.165		0.165	
33.0VDC	31.0VDC	0.230		0.230		0.230		0.230	
16.0VRMS	20.0VRMS	0.155		0.155		0.155		0.155	
24.0VRMS	24.0VRMS	0.235		0.235		0.235		0.235	
33.0VRMS	31.0VRMS	0.325		0.325		0.325		0.325	

* Rated average current is measured using mean value. ** The time duration for the peak current is 100 microseconds.

*** The time duration for the inrush current is 4 milliseconds.

⚠ WARNING: CHECK THE MINIMUM AND MAXIMUM OUTPUT OF THE POWER SUPPLY AND STANDBY BATTERY AND SUBTRACT THE VOLTAGE DROP FROM THE CIRCUIT WIRING RESISTANCE TO DETERMINE THE APPLIED VOLTAGE TO THE STROBES.

⚠ WARNING: MAKE SURE THAT THE TOTAL AVERAGE CURRENT, TOTAL PEAK CURRENT AND TOTAL INRUSH CURRENT REQUIRED BY ALL APPLIANCES THAT ARE CONNECTED TO THE SYSTEM'S PRIMARY AND SECONDARY POWER SOURCES, NAC CIRCUITS, SM, DSM SYNC MODULES OR PS-12/24-8 POWER SUPPLY DO NOT EXCEED THE POWER SOURCES' RATED CAPACITY OR THE CURRENT RATINGS OF ANY FUSES ON THE CIRCUITS TO WHICH THESE APPLIANCES ARE WIRED. OVERLOADING POWER SOURCES OR EXCEEDING FUSE RATINGS COULD RESULT IN LOSS OF POWER AND FAILURE TO ALERT OCCUPANTS DURING AN EMERGENCY, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

When calculating the total average, peak or inrush currents: Use Table 2 to determine the highest value of "Rated Average Current" for an individual strobe (across the expected operating voltage range of the strobe), to determine the highest value of "Rated Inrush Current" or "Rated Peak Current" (whichever is higher) of an individual strobe (across the expected voltage range of the strobe), then multiply these values by the total number of strobes; be sure to add the currents for any other appliances, including audible signaling appliances, powered by the same source and include any required safety factors.

If the inrush current or peak current exceeds the power supplies' inrush capacity, the output voltage provided by the power supplies may drop below the listed voltage range of the appliances connected to the supply and the voltage may not recover in some types of power supplies. For example, an auxiliary power supply that lacks filtering at its output stage (either via lack of capacitance and/or lack of battery backup across the output) may exhibit this characteristic.

⚠ CAUTION: Strobes are not designed to be used on coded systems in which the applied voltage is cycled on and off.

LIGHT DISTRIBUTION:

Horizontal Angle (in deg.)	15C/CR		30C/CR		75C/CR		100C/CR	
	UL Min.	Typ. 15C	UL Min.	Typ. 30C	UL Min.	Typ. 75C	UL Min.	Typ. 100C
0	15.0	21	30.0	42	75.0	90	100.0	132
5	13.5	20	27.0	40	67.5	92	90.0	129
10	13.5	20	27.0	40	67.5	89	90.0	127
15	13.5	20	27.0	40	67.5	86	90.0	121
20	13.5	20	27.0	40	67.5	86	90.0	116
25	13.5	20	27.0	40	67.5	83	90.0	109
30	11.3	19	22.5	38	56.3	77	75.0	103
35	11.3	17	22.5	34	56.3	70	75.0	100
40	11.3	17	22.5	34	56.3	65	75.0	96
45	11.3	15	22.5	30	56.3	62	75.0	92
50	8.3	10	16.5	20	41.3	42	55.0	86
55	6.8	8	13.5	16	33.8	35	45.0	79
60	6.0	8	12.0	16	30.0	33	40.0	76
65	5.3	8	10.5	16	26.3	31	35.0	59
70	5.3	8	10.5	16	26.3	31	35.0	45
75	4.5	8	9.0	16	22.5	31	30.0	43
80	4.5	7	9.0	14	22.5	30	30.0	42
85	3.8	7	7.5	14	18.8	27	25.0	41
90	3.8	6	7.5	13	18.8	26	25.0	36

Vertical Angle (in deg.)	15C/CR		30C/CR		75C/CR		100C/CR	
	UL Min.	Typ. 15C	UL Min.	Typ. 30C	UL Min.	Typ. 75C	UL Min.	Typ. 100C
0	15.0	21	30.0	42	75.0	90	100.0	132
5	13.5	21	27.0	42	67.5	88	90.0	129
10	13.5	21	27.0	42	67.5	87	90.0	127
15	13.5	20	27.0	40	67.5	83	90.0	121
20	13.5	19	27.0	38	67.5	79	90.0	116
25	13.5	19	27.0	38	67.5	74	90.0	109
30	11.3	18	22.5	36	56.3	70	75.0	103
35	11.3	18	22.5	36	56.3	68	75.0	100
40	11.3	16	22.5	32	56.3	66	75.0	96
45	11.3	14	22.5	28	56.3	63	75.0	92
50	8.3	12	16.5	24	41.3	59	55.0	86
55	6.8	12	13.5	24	33.8	54	45.0	79
60	6.0	9	12.0	18	30.0	52	40.0	76
65	5.3	8	10.5	16	26.3	40	35.0	59
70	5.3	8	10.5	16	26.3	31	35.0	45
75	4.5	8	9.0	16	22.5	29	30.0	43
80	4.5	8	9.0	16	22.5	29	30.0	42
85	3.8	8	7.5	16	18.8	28	25.0	41
90	3.8	8	7.5	16	18.8	24	25.0	36

CAN/ULC-S526-M87	15C/CR	30C/CR	75C/CR	100C/CR
Candela	15.0	30.0	75.0	100.0

WIRING INFORMATION:

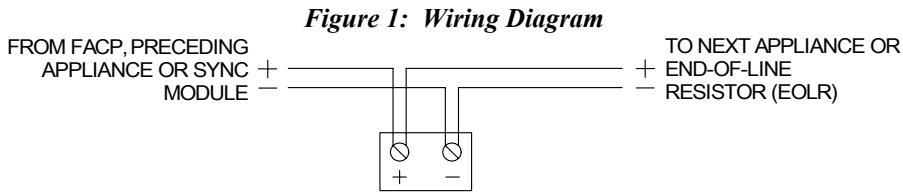
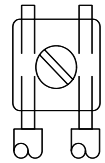


Figure 2.



Refer to Sync Module instruction sheets SM (P83123), DSM (P83177) or PS-12/24-8 (P83862) for additional information.

- 1) All Strobe Appliances have in-out wiring terminals that accepts two #12 to 18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
- 2) Break all in-out wire runs on supervised circuits to assure integrity of circuit supervision as shown in Figure 2. The polarity shown in the wiring diagram is for the operation of the appliances. The polarity is reversed by the FACP during supervision.

MOUNTING OPTIONS:

⚠ WARNING: REMOVAL OF THE PRINTED CIRCUIT BOARD COVER AT THE BACK OF THE MOUNTING PLATE COULD RESULT IN SEVERE ELECTRIC SHOCK.

⚠ CAUTION: The following figures show the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product.

Although the limits shown for each mounting option comply with the National Electrical Code (NEC), Wheelock recommends use of the largest backbox option shown and the use of approved stranded field wires, whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.

A FLUSH MOUNTING

STD. SINGLE-GANG BACKBOX 2" DEEP

#6-32 X 5/8" SCREWS

STROBE MOUNTING PLATE

SQUARE BEAUTY PLATE (SUPPLIED)

MAXIMUM NUMBER OF CONDUCTORS			
AWG #18	AWG #16	AWG #14	AWG #12
4	4	4	4

B FLUSH MOUNTING STROBE SPEAKER

4" SQ. X 1-1/2" DEEP BACKBOX OR 100M X 37.5MM EUROPEAN BACJBIX

STROBE MOUNTING PLATE

#8-32 X 3/4"

ROUND BEAUTY PLATE (SUPPLIED)

MAXIMUM NUMBER OF CONDUCTORS			
AWG #18	AWG #16	AWG #14	AWG #12
4	4	4	4

C FLUSH OR SURFACE MOUNT

DOUBLE-GANG X 2-1/4" DEEP BACKBOX

#6-32 X 5/8" SCREWS

STROBE MOUNTING PLATE

SQUARE BEAUTY PLATE (SUPPLIED)

MAXIMUM NUMBER OF CONDUCTORS			
AWG #18	AWG #16	AWG #14	AWG #12
4	4	4	4

D SURFACE MOUNTING

SHALLOW SURFACE BACKBOX

STROBE MOUNTING PLATE

#8-32 X 3/4" SCREWS

SQUARE BEAUTY PLATE SUPPLIED

MAXIMUM NUMBER OF CONDUCTORS			
AWG #18	AWG #16	AWG #14	AWG #12
4	4	4	4

NOTE: All Mounting Options are available with Round Grille as shown in Mounting Option B.

MOUNTING PROCEDURES:

⚠ CAUTION: Check that the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multiconductor cable or 3/4" conduit fittings are used.

1. RSS models have an integrated Strobe Mounting Plate (SMP).
2. RSS models can be flush mounted to a standard single-gang backbox (Figure A), 4" or 100mm backbox (Figure B) or double-gang backbox (Figure C). RSS models can also be surface mounted to a 4" or 100mm backbox (Figure B), double-gang backbox (Figure C) or the SHBB (Figure D).
3. Mount the SMP first to the backbox. Next slide the Beauty Plate over the SMP until the 2 snaps of the Beauty Plate engage with the SMP.
4. The Beauty Plate can be removed from the strobe assembly once engaged. First, gently insert a screwdriver into one of the slots located on the top and bottom edges of the Beauty Plate. Second, gently pull away from the wall with the inserted screwdriver to disengage the snap. Third, repeat the first and second steps for the second slot. Finally, gently lift the Beauty Plate away from the SMP.
5. Mounting hardware for each mounting option is supplied.
6. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product.
7. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the signaling appliance.
8. Use care and proper techniques to position the field wires in the backbox so that they use minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing.
9. Do not pass additional wires (used for other than the signaling appliance) through the backbox. Such additional wires could result in insufficient wiring space for the signaling appliance.
10. The effect of shipping and storage temperatures do not adversely affect the performance of the appliances when stored in the original cartons and are not subjected to misuse.

⚠ WARNING: WHEN INSTALLING STROBES IN AN OPEN OFFICE OR OTHER AREAS CONTAINING PARTITIONS OR OTHER VIEWING OBSTRUCTIONS, SPECIAL ATTENTION SHOULD BE GIVEN TO THE LOCATION OF THE STROBES SO THAT THEIR OPERATING EFFECT CAN BE SEEN BY ALL INTENDED VIEWERS, WITH THE INTENSITY, NUMBER, AND TYPE OF STROBES BEING SUFFICIENT TO MAKE SURE THAT THE INTENDED VIEWER IS ALERTED BY PROPER ILLUMINATION, REGARDLESS OF THE VIEWER'S ORIENTATION. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

⚠ WARNING: A SMALL POSSIBILITY EXISTS THAT THE USE OF MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW, UNDER CERTAIN CIRCUMSTANCES, MIGHT INDUCE A PHOTO-SENSITIVE RESPONSE IN PERSONS WITH EPILEPSY. STROBE REFLECTIONS IN A GLASS OR MIRRORED SURFACE MIGHT ALSO INDUCE SUCH A RESPONSE. TO MINIMIZE THIS POSSIBLE HAZARD, WHEELOCK STRONGLY RECOMMENDS THAT THE STROBES INSTALLED SHOULD NOT PRESENT A COMPOSITE FLASH RATE IN THE FIELD OF VIEW WHICH EXCEEDS FIVE (5) Hz AT THE OPERATING VOLTAGE OF THE STROBES. WHEELOCK ALSO STRONGLY RECOMMENDS THAT THE INTENSITY AND COMPOSITE FLASH RATE OF INSTALLED STROBES COMPLY WITH LEVELS ESTABLISHED BY APPLICABLE LAWS, STANDARDS, REGULATIONS, CODES AND GUIDELINES.

NOTE: NFPA 72/ANSI 117.1 conform to ADAAG Equivalent Facilitation Guidelines in using fewer, higher intensity strobes within the same protected area.

⚠ CAUTION: Check the installation instructions of the manufacturers of other equipment used in the system for any guidelines or restrictions on wiring and/or locating Notification Appliance Circuits (NAC) and notification appliances. Some system communication circuits and/or audio circuits, for example, may require special precautions to assure immunity from electrical noise (e.g. audio crosstalk).

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) Reorient or relocate the receiving antenna, 2) Increase the separation between the equipment and receiver, 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, and 4) Consult the dealer or an experienced radio/TV technician for help.

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IMPORTANT: READ SEPARATE "GENERAL INFORMATION" SHEET FOR INFORMATION ON THE PLACEMENT, LIMITATIONS, INSTALLATION, FINAL CHECKOUT, AND PERIODIC TESTING OF NOTIFICATION APPLIANCES.

Limited Warranty

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