

INSTALLATION INSTRUCTIONS
SERIES RSSWP STROBE WEATHERPROOF
APPLIANCE (WALL/CEILING MOUNT VERSION)

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

GENERAL

Series RSSWP 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 Cooper Wheelock's Power Supplies. The RSSWP strobe appliance is UL Listed under Standard 1638 (Visual Signaling Appliances) and UL Standard 1971 (Signaling Devices for the Hearing Impaired) for indoor/outdoor use, UL. These appliances are also ULC Listed under Standard CAN/ULC-S526-07 for Visual Signaling Appliances. RSSWP Strobe Appliances with amber, blue, green or red lens are UL Listed under Standard 1638 (Visual Signaling Appliance) for Private Mode Emergency and General Utility Signaling. The Multi-High-Candela strobe provides two selectable light output intensities in one unit. For outdoor applications the RSSWP *must* be mounted to a Weatherproof Backbox (WPSBB). The strobes use a xenon flashtube with solid state circuitry enclosed in a polycarbonate 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 Canadian installations should be in accordance with the Canadian Standard for the Installation of Fire Alarm Systems, CAN/ULC-S524 and the Canadian Electrical Code, Part 1. Final acceptance is subject to authorities having jurisdiction (AHJ).

WARNING: Please 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.

CAUTION: Not recommended for use at refrigerator/freezer door entrances or other areas with persistent condensation.

SPECIFICATIONS

Table 1: UL/ULC Models and Ratings

Model	Regulated Voltage (VDC/FWR)	Voltage Range (UL/ULC)	Maximum Current Rating		Candela Ratings			
			DC-RMS (Amps)	FWR-RMS (Amps)	ULC-S526	UL1971	UL1638 (Note 1)	Cold Ambient (Notes 2, 3)
RSSWP-2475W	24	16-33	0.138	0.222	30	30	180	115
RSSWP-2475C	24	16-33	0.138	0.222	15	15	180	115
RSSWPA-2475W	24	16-33	0.138	0.222	-	24 (Note 4)	145	92
RSSWPA-2475C	24	16-33	0.138	0.222	-	12 (Note 4)	145	92
RSSWPB-2475(W or C)	24	16-33	0.138	0.222	-	-	71	45
RSSWPG-2475(W or C)	24	16-33	0.138	0.222	-	-	111	71
RSSWPR-2475(W or C)	24	16-33	0.138	0.222	-	-	46	29
RSSWP-24MCWH	24	16-33	0.3/0.42	0.455/0.645	135/185	135/185	135/185	86/118
RSSWP-24MCCH	24	16-33	0.3/0.42	0.455/0.645	115/177	115/177	115/177	73/113
RSSWPA-24MCWH	24	16-33	0.3/0.42	0.455/0.645	-	118/161 (Note 4)	118/161	75/103
RSSWPA-24MCCH	24	16-33	0.3/0.42	0.455/0.645	-	100/154 (Note 4)	100/154	64/98
RSSWPB-24MCCH	24	16-33	0.3/0.42	0.455/0.645	-	-	75/115	48/73
RSSWPG-24MCCH	24	16-33	0.3/0.42	0.455/0.645	-	-	77/118	49/75
RSSWPR-24MCCH	24	16-33	0.3/0.42	0.455/0.645	-	-	38/58	24/37

NOTES

- UL1638 is an on axis rating where the following applies: **WARNING: not to be used as a visual public model alarm notification appliance. Use UL1971 and ULC-S526 ratings for all public mode applications.**
- These ratings apply in extreme low ambient conditions as follows: Clear Lens at -40°F (-40°C) all other models at -31°F (-35°C).
- All products are listed for indoor and outdoor use as follows: Clear Lens rated -40°F(-40°C) to 150°F(66°C) with max. humidity of 95% RH. All other models rated -31°F(-35°C) to 150°F(66°C) with max. humidity of 95% RH.
- Effective candela rating per UL1971.
- Strobes will produce 1 flash per second over the regulated voltage range.

WARNING: Candela setting will determine the current draw of a product.

When calculating the total currents use Table 1 to determine the highest value of RMS current for an individual 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 to include any required safety factors.

WARNING: These appliances were tested to the regulated voltage limits of 16-33 Volts for 24V models using filtered dc or unfiltered full-wave-rectified voltage. Do not apply voltage outside of this range.

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. The maximum wire impedance between strobes shall not exceed 35 ohms.

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

WARNING: Ensure the total RMS current required by all appliances that are connected to the system's primary and secondary power sources, Notification Appliance Circuits, SM, DSM sync modules, or Cooper Wheelock's power supplies does not exceed the power source's 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.

LIGHT OUTPUT

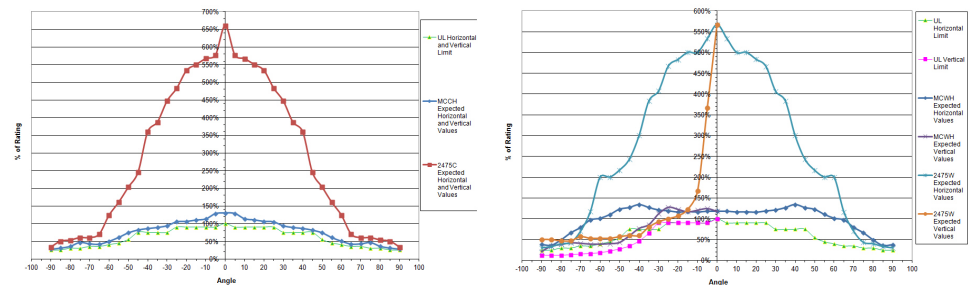


Figure 1: Expected light output for Ceiling (left) and Wall (right) Models

WIRING AND MOUNTING INFORMATION

CAUTION: The following figure shows 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.

CAUTION: Verify the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multi-conductor cable is used.

Although the limits shown for each mounting option comply with the National Electrical Code (NEC), Cooper Notification 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.

WARNING: This unit must be mounted on a flat surface, so that the surface covers the entire back surface of the backbox. When used in an outdoor application or a NEMA 3R application, use weatherproof rated conduit fitting on all knockouts of the backbox.

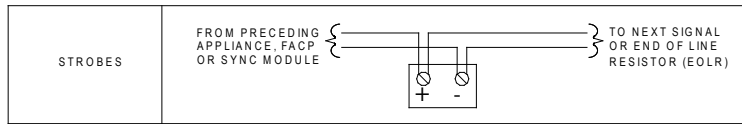
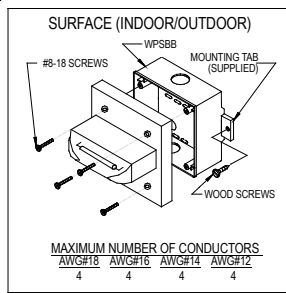


Figure 2: Wiring Diagram

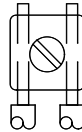
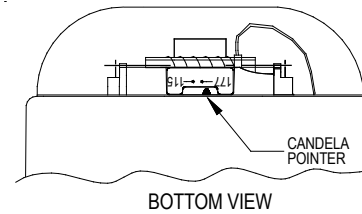
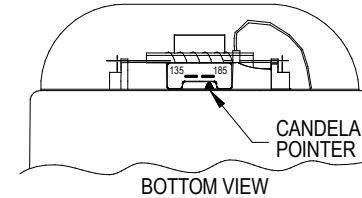


Figure 3

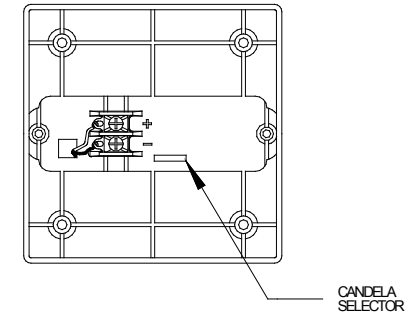
1. All strobes have in-out wiring terminals that accepts two #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
2. Break all in-out wire runs on supervised circuits to ensure the integrity of circuit supervision as shown in Figure 3. The polarity shown in the wiring diagrams is for the operation of the appliances. The polarity is reversed by the FACP during supervision. Refer to instruction sheets for SM, DSM or Cooper Notification power supplies for additional information.
3. The knock-out opening on the backbox is sized for a 1/2-inch conduit and matching connector. Ensure a proper watertight conduit fitting is used to connect the backbox for outdoor/severe environment applications. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product. 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.
4. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the appliance.
5. Use care and proper techniques to position the field wires in the backbox so 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.
6. Connect 4 field wires to the RSSWP terminal block (polarity must be observed).
7. Bend the 4 field wires up 90 degrees at the connection to the terminal block. Then, carefully push the 4 field wires into the backbox by hand.
8. Carefully press the RSSWP to the backbox, verifying the RSSWP is in contact with the gasket all the way around. It should not be resting on the lip of the backbox.
9. Screw the RSSWP to the WPSBB using the #8-18 screws supplied.



BOTTOM VIEW



BOTTOM VIEW



CANDELA SELECTOR

Figure 4

NOTE: The RSS Multi High-Candela Ceiling comes preset at 177cd. The RSS Multi-High-Candela Wall comes preset at 185cd.

WARNING: Removal of the printed circuit board cover at the back of the mounting plate could result in severe electric shock.

WARNING: The RSSWP strobe appliance is a FIRE ALARM DEVICE - DO NOT PAINT.

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 their operating effect can be seen by all intended viewers, with the intensity, number, and type of strobes being sufficient to ensure the intended viewer is alerted by proper illumination. 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 photosensitive response in persons with epilepsy. Strobe reflections in a glass or mirrored surface might also induce such a response. To minimize this possible hazard, Cooper Notification 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. Cooper Notification 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.

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 ensure immunity from electrical noise (e.g., audio crosstalk).

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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