BROAN® NuTone®

MODEL SC100W   3 AMP / 120 VAC, ELECTRONIC SPEED CONTROL

INCLUDED

Wall Control
Instruction Sheet
Note: Wall plate not included – Use Broan Part No. S97012925 (or equivalent)

CONTROL SPECIFICATIONS

- cULus Listed
- 120 VAC 60 Hz Line Power
- Typical Wire Sizes: 12AWG (MAX) or 14AWG solid or stranded copper wire
- Operating temperature: 32-122°F (0-50°C)
- Do not use with impedance protected motor unless specifically designed for use with electronic speed control.
- This control may only be used with a thermally protected shaded pole or permanent split capacitor motor with a nameplate rating up to 3.0 AMPS @ 120 VAC.

SAFETY

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:
1. Before installing the wall control, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel. CAUTION: Risk of Electric Shock - More than one disconnect switch may be required to de-energize the equipment before servicing.
2. All electrical work must be done in accordance with local codes, ordinances, or National Electrical Code,

as applicable, including fire-rated construction codes and standards. FOR SAFETY, THIS PRODUCT MUST BE GROUNDED. If you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified electrician.
3. Use copper wire only.
4. WARNING: This device shall not be used in combination with a wall switch controlling a receptacle.
5. Install only in a UL Listed junction box sized 2.0 x 3.0 x 3.0 in. (50.8 x 76.2 x 76.2 mm) or larger, with a minimum volume of 18.0 in3 (295 CM3).
6. When cutting or drilling into wall or ceiling, do not damage electrical wiring or other hidden utilities.
7. To prevent serious injury from electrical shock or damage to electrical components - DO NOT WIRE HOT!
Warranty is void if miswired.

INSTALLATION

NOTE: This control requires a 120 VAC source in the switch box to operate the wall control.
1. Turn off the power and lockout the service panel before wiring the control.
2. Install the wall control in at least a 3" deep switch box for #14 AWG wire or at least a 3 ½" deep switch box for #12 AWG wire. The control can be installed in either a metal outlet box or a plastic outlet box.
3. Attach the incoming power line and ventilator power line to switch box. It may be necessary to use two side knockouts for some applications. Use proper connectors. Provide 6" leads inside box and ventilation product.
4. Make electrical connections following the diagrams provided. Use wire nuts. Make sure both the control

and the ventilator are properly grounded. Wire terminals accept up to #12 AWG MAX solid and stranded wire.
a. Loosen combination screw/washer from the terminals.
b. Wrap the stripped end of the wire around the screw thread, under the washer.
c. Tighten the screw/washer, making sure wire remains under the washer. Torque the terminal screws to 15.9 - 19.5 in-lbs (1.8 - 2.2 N-m).
d. Note: The screw/washer is not designed for straight insertion of stripped wire. Use only wire formed into a "J" loop and wrapped around screw thread for proper mechanical and electrical connection.
5. Tuck wires in and fasten control to switch box using attached screws. Verify wall control orientation before installation. Note "TOP" direction shown on the wall control label.
6. Attach switch plate (not included) using color-matched oval head screws.