

OPA

Mounting & Assembly

Installation Instructions

For use with Sage central-battery emergency lighting

IMPORTANT SAFEGUARDS — READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Before connecting to the power supply, TURN OFF ELECTRICAL POWER AT THE CIRCUIT BREAKER OR FUSE.
2. Disconnect AC power before servicing.
3. Refer to the wiring diagram for proper connections.
4. All servicing should be performed by qualified personnel.
5. Consult your local building code for approved wiring and installation.
6. Do not use outdoors.
7. Suitable for indoor damp locations (when specified).
8. Do not let power cords touch hot surfaces.
9. Do not mount near gas or electric heaters.
10. Mount and secure the exit sign at a location and height that avoid ready access and tampering by unauthorized persons (exception: floor-proximity installations).
11. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
12. Do not use this equipment for other than its intended use.

A) MOUNTING & ASSEMBLY

J-BOX & SUPPLY (ALL MOUNTS)

All installations require a standard 4" x 4" square x 2¹/₈" deep J-box (by others) with its edge set 1/4" below the finished panel surface; BB and NB models take a 1 1/2" extension ring. Disconnect the main power supply at the circuit breaker or fuse before installing or connecting any primary wiring, and connect to an un-switched circuit only. Remote models (central battery / master remote) use a standard 4-O J-box, 3 1/2" x 3 1/2" x 1 1/2" — see the supplementary data sheet.

WALL /CEILING MOUNT

Route the wire nuts to the side of the J-box, insert the power module into the box, and secure with two #8-32 box screws — module orientation is universal; position it to clear the nipple and wire nuts. Run the LED lamp plug from the power module through the canopy center and secure the canopy to the J-box with the two #8-32 screws supplied. Raise the sign to the canopy, connect the lamp plug, tuck the excess wiring and plug into the J-box cavity, then seat the lamp housing in the canopy, center the assembly, and secure it with the two #6-32 set screws.

END MOUNT (LE / RE)

Follow wall-mount wiring and module steps first. Run the LED lamp plug through the canopy plate and secure the canopy to the sign with the two #6-32 screws supplied. Position the sign over the J-box trim plate, insert the excess wiring and plug into the center cavity, and secure the sign assembly with the two #8-32 color-matched screws supplied.

"Engineered for the spaces it protects."

OPA

Wiring & System Test

Installation Instructions

Model OPA

B) WIRING & SYSTEM TEST

1. Connect the power-module AC wiring to the main power lines in the J-box with the wire nuts or connectors supplied — battery models: BLACK = 120/277 VAC line · WHITE = common; AC models: non-polarized line-in. Attach the building ground wire to the back box with the screw provided (GREEN = ground).
2. Battery-backup models: connect the 2-pin polarized battery plug. CAUTION — damage to the battery will occur if the battery connector is left connected to the charger board for a prolonged period without continuous AC power.
3. Dual-AC (DAC) fixtures: primary input BLACK = 120 V line or ORANGE = 277 V line, with WHITE = neutral; the emergency input (DAC option, 120 V or 277 V) lands on its own polarized connector — WHITE neutral, BLACK (120 V) or ORANGE (277 V) line, per the wiring diagram.
4. Lamp circuit: the power module outputs 2.4–5 VDC. Emergency signs feed an 8-pin polarized connector — conductors BLACK · ORANGE · PINK · GREEN · YELLOW · BROWN · VIOLET · RED serve the test panel (test switch · charge light · diagnostics indicator), with RED · VIOLET · BROWN continuing to the lamp circuit board in the fixture housing. AC and DAC fixtures feed the lamp circuit board through a 2-pin polarized connector (BROWN · RED). For master-remote or self-diagnostics configurations, refer to the supplementary data sheet.
5. Restore power. Allow the battery to charge 8 hours before initial testing and 24 hours to reach full charge. Normal operation: with AC power supplied, the charge light and exit lamp are ON.
6. To test: press the manual test switch — the charge light turns off and the exit lamp remains on in DC mode. Test as often as local codes require, and at least monthly, to confirm all components are operational. Diagnostics-equipped units (option DG) report on the indicator: NORMAL = OFF · FAILED LAMP = GREEN · FAILED CHARGER = RED · FAILED TRANSFER = ORANGE · FAILED BATTERY = RED FLASH · FAILED ANNUAL TEST = ORANGE FLASH. The diagnostics program runs continuous monitoring with 1-second sampling (lamp and battery connections), a 28-day test (transfer-switch function, battery discharge rate under full load, test-switch indicator), and a 12-month full 90-minute emergency-operation test with test/fail and manual report signal.
7. Servicing — turn off AC power and disconnect the battery before servicing the unit. Battery replacement: remove the fixture from the J-box, disconnect the 2-pin polarized battery plug, pry the battery from its cavity to release the hook-and-loop fastener, replace the battery, reconnect the plug, and re-mount the fixture. Power-module replacement: remove the fixture from the J-box, back out the two #8-32 J-box screws, withdraw the power-module assembly, disconnect the wire-nut / push-nut AC line connections, and reverse the sequence with the new module.

SAVE THESE INSTRUCTIONS

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