

**OBS**

Mounting & Assembly

**Installation Instructions**

For use with Sage central-battery emergency lighting

**IMPORTANT SAFEGUARDS — READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

1. Disconnect AC power before servicing.
2. Refer to the wiring diagram for proper connections.
3. All servicing should be performed by qualified personnel.
4. Consult your local building code for approved wiring and installation.
5. Do not use outdoors.
6. Do not use this equipment for other than its intended use.
7. Do not let power cords touch hot surfaces.
8. Mount and secure the fixture at a location and height that avoids ready access and tampering by unauthorized persons.
9. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

**A) MOUNTING & ASSEMBLY**

**PLASTER FRAME & HANGERS**

Insert the three retaining clips into the plaster frame and insert the two bar hangers into the slots provided. Install the plaster-frame assembly into the ceiling — the integral bar hangers span 14 3/16" min to 26 max between framing, with end nailing brackets — and make the lamp-housing cutout in the ceiling plaster or tile.

**HOUSING & LAMP CABLE**

Insert the housing and lamp cable assembly through the ceiling cutout. RE: locate flush with the ceiling tile, connect the lamp cable to the double outlet box at the location shown, and connect the polarized lamp plug inside the outlet box. BB: remove the battery-pack assembly from the J-box for access and connect the polarized lamp-cable plug inside the J-box.

**TRIM & LAMP ASSEMBLY**

After wiring, raise the trim & LED lamp assembly to the housing and connect the polarized lamp plug (BB: also the test-panel plug). Route the wiring up into the housing and insert the lamp assembly flush to the ceiling panel; snap the trim ring in place. The lamp assembly must be correctly oriented with respect to the path of egress — rotate it so the alignment marks in the lens are in line with the path of egress.

*“Engineered for the spaces it protects.”*

# OBS

Wiring &amp; System Test

## Installation Instructions

Model OBS

### B) WIRING & SYSTEM TEST

1. AC models — connect the 120/277 VAC input wiring to the building supply with wire nuts, and connect GROUND to the housing at the screw mount: the LED driver's BLUE and BROWN input leads join the supply (L·N·G entry), and its RED and BLACK lamp leads connect through the supplied polarized connector to the lamp wiring. OPTIONAL dual AC input (option DAC): connect the 120/277 VAC emergency input wiring with wire nuts.
2. BB models — run the supply wiring to the outlet box and make the connections from the AC building supply to the input wiring from the charger assembly: BLACK = line, 120/277 VAC · WHITE = neutral · GREEN = ground · BLK/WHT = line, 120–277 VAC switch option. Security-lighting switch control option (where supplied): the control switch makes for security ON and breaks for security OFF — control input 120/277 VAC universal; the L–N normal input stays un-switched. Connect the polarized battery plug and replace the battery-pack assembly onto the J-box. CAUTION: damage to the battery may occur if the battery is connected to the charger board for a period exceeding 24 hours without AC power provided. NOTE: lamps will illuminate on battery power if the AC supply is off — to limit battery discharge, turn AC power on.
3. RE models — run the supply wiring to the double outlet box and make the connections as shown, using standard wire nuts (not supplied); close the outlet box with its covers. Wiring key: COMMON = 12/24 VDC negative (–) · EMERGENCY = 24 VDC positive (+) · EXIT / CDO = 12/24 VDC positive (+) · NIGHT / SECURITY LIGHTING = 24 VDC positive (+). The power converter's BLACK lead wires to the common, RED to the emergency circuit, and BLUE to the security circuit; the exit / CDO conductor carries through with the 24 VDC input and output branch circuits. If security / night lighting is not supplied or required, cap off the BLUE lead to the power converter.
4. Apply power and check lamp operation. BB models: check test-switch operation — press PUSH TO TEST (3 seconds) to operate the fixture in emergency mode for a one-minute test; the lamp can be checked visually during this period. The dual-color LED status light reads: GREEN ON = normal full charge · ORANGE ON = normal fast charge · RED FLASH FAST = failed battery · GREEN FLASH = failed lamp · ORANGE FLASH = failed transfer · RED FLASH SLOW = failed charger.
5. BB models self-test automatically once AC power is supplied — verifying battery disconnection, charger failure, and load failure: a one-minute battery-discharge self-test every month and a 90-minute battery-discharge self-test every year. MONTHLY TEST (1 minute lamp operation): battery condition, transfer-switch operation, battery charge rate, connected-load continuity. ANNUAL TEST (90 minutes lamp operation): 12 months from the date of installation, an annual test is required by initiating full operation of the emergency load for 90 minutes, in compliance with NFPA Life Safety Code 101. Periodic diagnostic tests start at the same time the system is first activated with AC power. Where the no-automatic-test option is supplied (designated on the model-number label), automatic testing is disabled and the annual test must be activated manually. Emergency operation may also be checked by interrupting AC power to the fixture (qualified personnel).
6. RE models energize from the Sage central battery and are verified as part of the central-battery system test — see the central battery's installation guide for the initial system test and load-datum procedure.

**SAVE THESE INSTRUCTIONS**

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