



EVENLITE
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SENTRY SDI

INSTALLATION AND OPERATING INSTRUCTIONS

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Install in accordance with all national and local electrical codes.
2. Disconnect power at circuit breaker or fuse before installing or servicing the unit.
3. DO NOT mount in hazardous locations, near gas or near electric heaters.
4. DO NOT let power cords contact hot surfaces.
5. Equipment should be mounted in locations and at heights where it will not be readily subject to tampering by unauthorized personnel.
6. DO NOT use accessory equipment not recommended by the manufacturer. The use of such equipment may cause unsafe conditions and will void the unit's warranty.
7. DO NOT use this equipment for other than its intended purpose.
8. All servicing should be performed by qualified personnel only.
9. Allow battery to charge for 24 hours before first use.
10. For indoor use only, unless WL (Wet Location) option is selected.

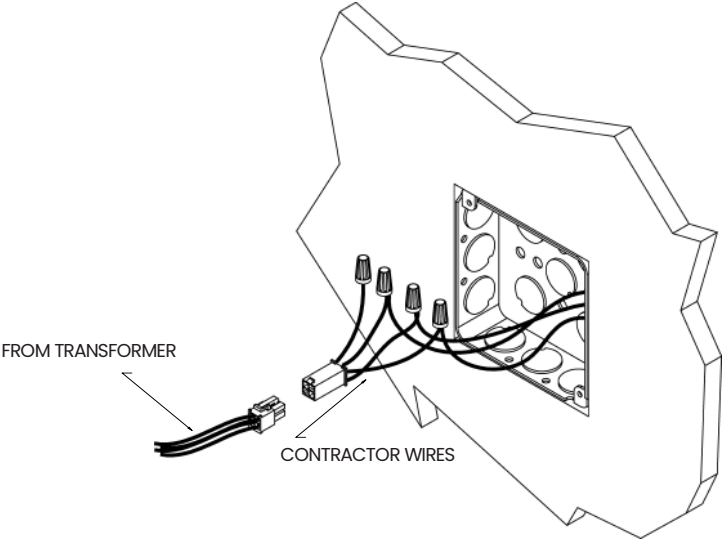
SAVE THESE INSTRUCTIONS

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TRANSFORMER WIRING

Before installing unit, disconnect power at breaker panel

For Dual Circuit Input: Mixed voltages may be used. (Example: 120V Utility Power, 277V Emergency Power)



SINGLE CIRCUIT WIRING

Connect Power Receptacle to AC supply per local codes.

Black Lead for 120V or Orange Lead for 277V CAP UNUSED LEAD

White for Neutral

Green/Yellow Lead for Ground

DUAL CIRCUIT WIRING
IN ADDITION TO SINGLE CIRCUIT WIRING

Connect Power Receptacle to AC supply per local codes.

Red Lead for 120V or Brown Lead for 277V CAP UNUSED LEAD

Gray Lead for Neutral

Green/Yellow Lead for Ground

FIGURE 1: SINGLE CIRCUIT APPLICATION - LEAD WIRE CONNECTIONS TO TRANSFORMER

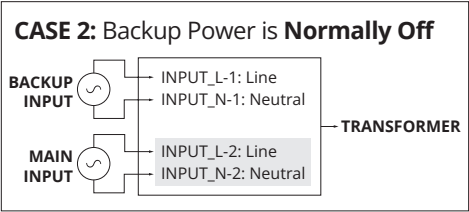
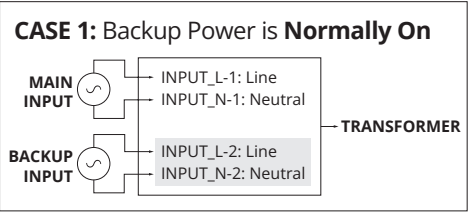
FIGURE 2: DUAL CIRCUIT APPLICATION - LEAD WIRE CONNECTIONS TO TRANSFORMER

DUAL CIRCUIT INPUT OPTION (AC VERSIONS ONLY)

For AC versions with dual circuit input, connect power to the input wires as follows (refer to case 1 and case 2 diagrams below):

Case 1 (Backup power is Normally On): Connect main power to input 1 and backup power to input 2.

Case 2 (Backup power is Normally Off): Connect backup power to input 1 and main power to input 2.



KNOCKOUTS, CHEVRONS AND SIGN ASSEMBLY

Open the enclosure by removing the 4 security screws around the sign (as shown below).

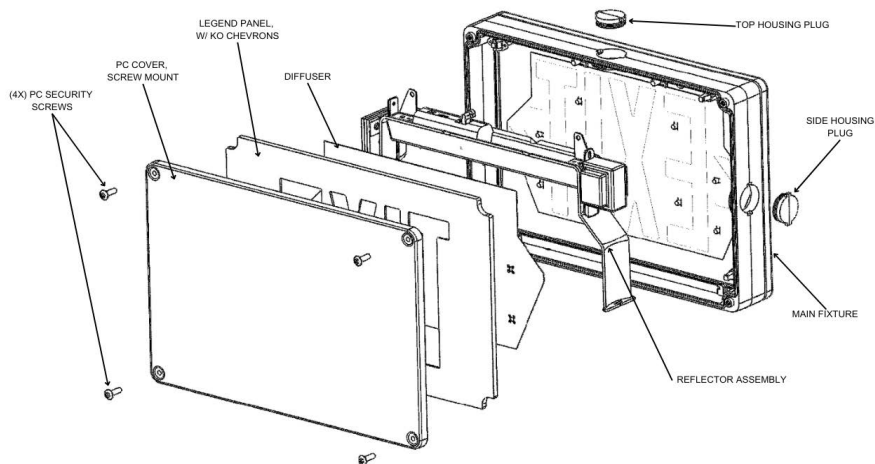


FIGURE 3: Sign Assembly

Support the rear panel on spacers and punch out appropriate knockouts to fix the junction box.

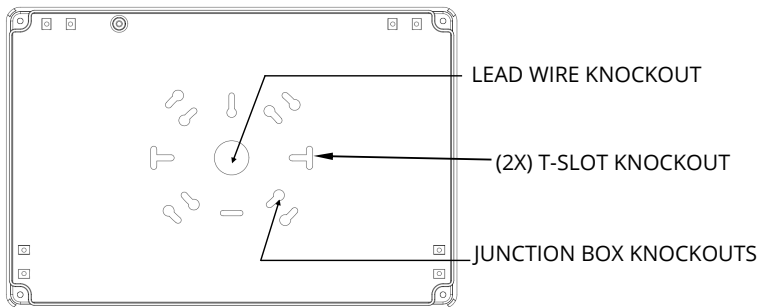


FIGURE 4: Rear Panel Knock Outs

To remove the directional indicators, remove diffuser and set aside. Support front cover and knocked out desired indicators.

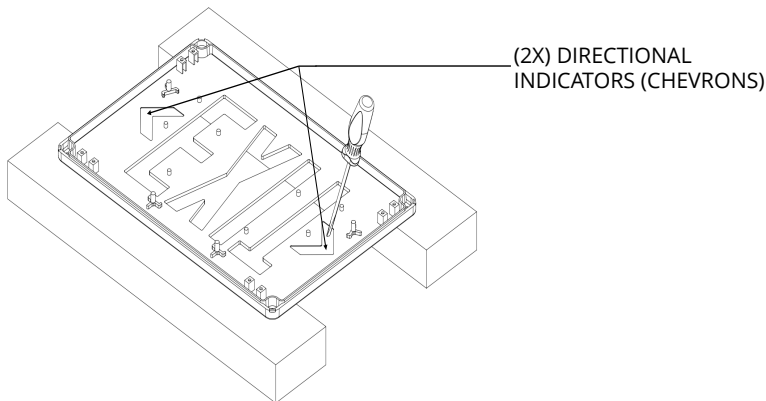


FIGURE 5: Removing the Directional Indicators

INSTALLATION INSTRUCTIONS

BACK / WALL MOUNT:

1. Route the transformer's primary leads through the center knockout of the sign. **NOTE: When connections are being made local regulations must be followed.**
2. Connect the power plug from the sign to the power receptacle, then push it back into the junction box.
3. Ensure that the wires are routed towards the rear of the sign and are not visible when inspecting the sign from the front face.
4. Secure the front panel into place to complete the assembly process.

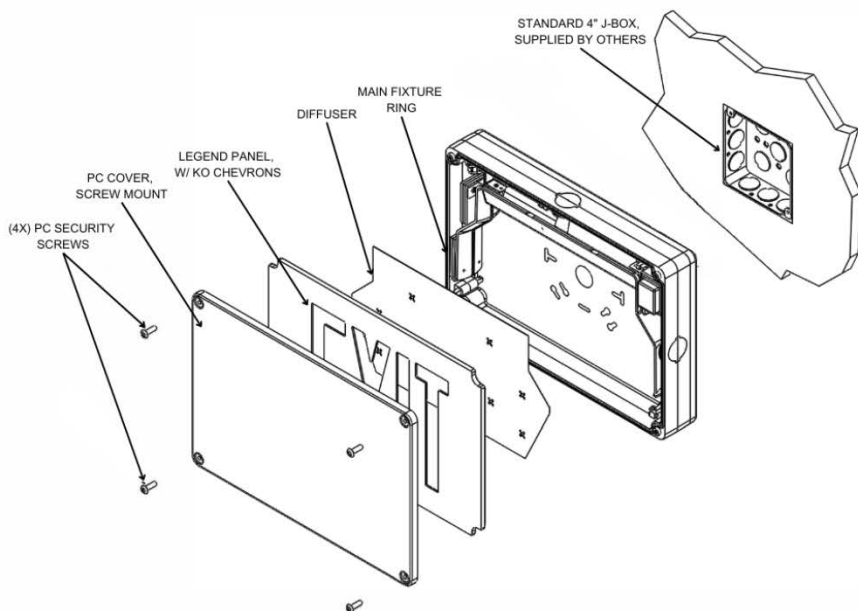


FIGURE 6: BACK/WALL MOUNT ASSEMBLY

TOP / CEILING MOUNT:

1. Connect power receptacle to the power source per local codes. (Please see Figure #2).
2. Secure the Industrial Canopy Mounting Plate to the Junction box.
3. Install the ceiling mount bracket to the industrial canopy mounting cover using the 4 supplied 1/4"-20 nuts.
4. Remove the four security screws on the front of the sign and remove the legend panel.
5. Detach the inner reflector from the sign to allow access to the top and side housing plugs. (Please see Figure #2 for Inner reflector, top housing plug, and side housing positioning)
6. Remove the top and side housing plugs and interior washers from the sign.
7. Position the canopy assembly from step 3 and install the top conduit bushing and nut through the canopy assembly. (Tighten securely)
8. Install the conduit plug and nut through the canopy assembly on the side of the sign. (Tighten securely)
9. Feed the power plug up through the top conduit bushing.
10. Connect the power receptacle to the power plug from the sign.
11. Re-install the inner reflector from step 5.
12. Re-install the legend panel and face with the supplied security screws.
13. Position the sign and canopy assembly over the industrial mounting plate and install the four security screws supplied with the sign.

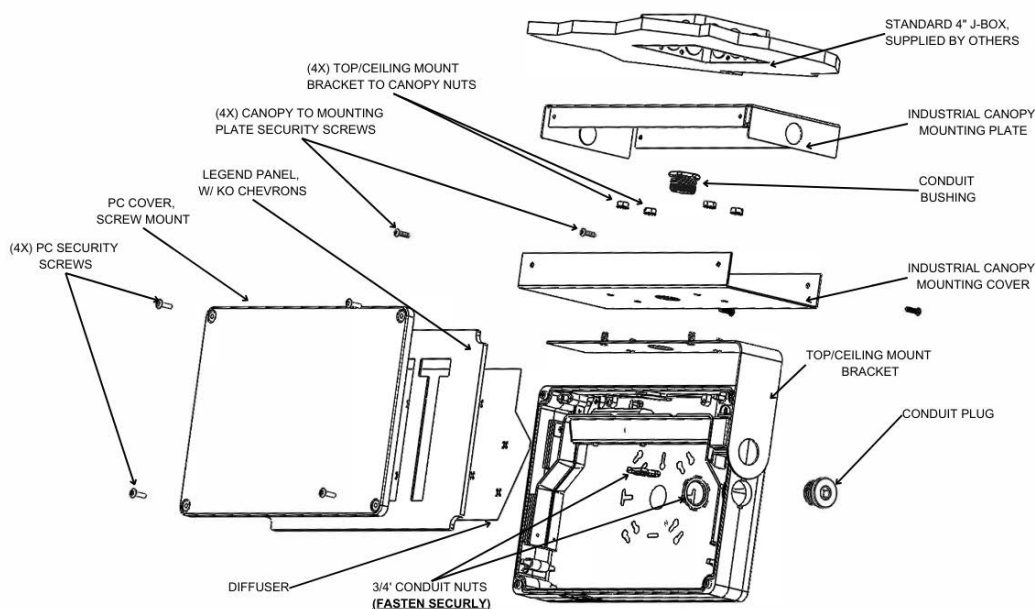


FIGURE 7: TOP/CEILING MOUNT

END MOUNT:

1. Connect power receptacle to the power source per local codes. (Please see Figure #2).
2. Secure the Industrial Canopy Mounting Plate to the Junction box.
3. Install the ceiling mount bracket to the industrial canopy mounting cover using the 4 supplied 1/4"-20 nuts.
4. Remove the four security screws on the front of the sign and remove the legend panel.
5. Detach the inner reflector from the sign to allow access to the top and side housing plugs. (Please see Figure #2 for Inner reflector, top housing plug, and side housing positioning)
6. Remove the top and side housing plugs and interior washers from the sign.
7. Position the canopy assembly from step 3 and install the top conduit bushing and nut through the canopy assembly. (Tighten securely)
8. Install the conduit plug and nut through the canopy assembly on the side of the sign. (Tighten securely)
9. Feed the power plug up through the side conduit bushing.
10. Connect the power receptacle to the power plug from the sign.
11. Re-install the inner reflector from step 5.
12. Re-install the legend panel and face with the supplied security screws.
13. Position the sign and canopy assembly over the industrial mounting plate and install the four security screws supplied with the sign.

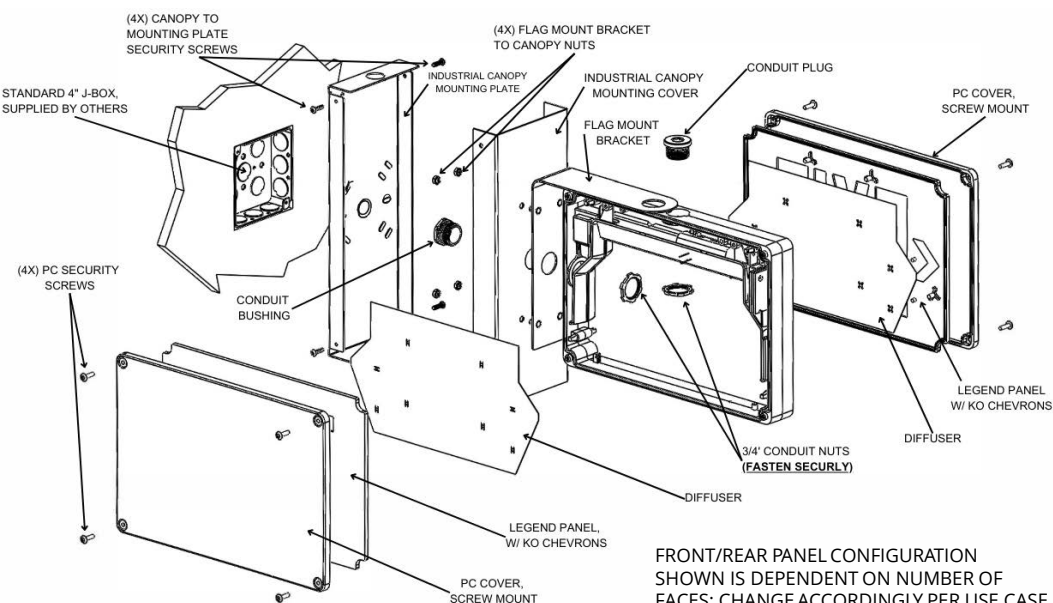


FIGURE 8: END MOUNT

FLASHER AND FIRE ALARM OPTIONS

Battery backup signs equipped with “FLASH IN EMERGENCY MODE” option which will automatically flash in emergency mode but not flash on AC operation.

Battery Backup signs equipped with the FIRE ALARM SIGNAL or FLASH options will automatically flash in both AC and emergency modes upon application of a fire alarm signal to the BLACK & RED 22 AWG leads. The fire alarm signal can be either AC or DC of either polarity and range from 12 to 24 volts. The current draw from the fire alarm signal is less than 10 milliamps.

Units that include one of the above options are intended in locations where such features are permitted by local codes. Flash rate 60/min, duty cycle: 50%

TEST FOR BATTERY BACKUP WITHOUT SELF-TEST FEATURE

The test (EM) battery backup units, use the test switch to simulate AC power outage. The indicator light will go out and the sign will remain lit, indicating transfer to emergency mode; and remain lit on battery power until switch is released. Release of switch will automatically restore AC/battery charge mode, with indicator light on. Testing for longer periods is best accomplished by turning off AC circuit power. Signs should be tested in accordance with National Electrical Code and NFPA 101 Life Safety Code requirements, which specify monthly testing for 30 seconds and yearly testing for 90 minutes. Note that the batteries will take some time to reach full charge after a prolonged test, and that the unit cannot provide full duration operation should a real power outage occur before the batteries have had an opportunity to reach full charge. It is recommended that long duration tests be limited to once yearly and be conducted when the area will be unoccupied afterwards.

SELF-TESTING OPERATING INSTRUCTIONS

This unit meets requirements of NFPA 101 for period testing of emergency lighting equipment. It provides visual indication of unit malfunctions including “Charger Fault”, “Transfer Fault” and “Lamp Fault”.

SELF-TEST

The unit will perform a self-test and diagnostic function at least once every 28 days. The self-test will disable the charger and turn on the LEDs for 5 minutes to check the lamp load and battery. The test will be performed only if the battery is fully charged. If not, the test will automatically reschedule. Charger function is monitored continuously.

USER-TEST

A user-test may be performed at any time the status display is continuously green. On initial power-up, it could take up to 72 hours for the status display to reach continuous green.

With a fully charged battery, pressing the test switch momentarily will initiate a 30 second test. Holding the test switch for 4 seconds will initiate a 90 minute test.

Either test can be canceled by pressing the test switch again for 1 second.

INFRARED REMOTE TESTING

To activate TRANSMITTER, remove tab from the back of the device.

The USER-TEST can be performed up to 20 feet away using the optional “INFRARED REMOTE TESTING TRANSMITTER”. By aiming the transmitter at the legend face and pushing either the “30 SECOND” or “90 MINUTE” button for 1 second. The behavior of the exit sign is the same as when the user tests are initiated from the local test button.

STATUS INDICATORS:

STATUS DISPLAY	MEANING	ACTION
Continuous Green	Battery in Float / Trickle Charge	None
Continuous Red	Battery High Charging	Wait for Green Status
Flashing Green	In Test Mode	Wait for Test to Complete
Alternate Red & Green	Insufficient Charge for User Test	Wait for Full Charge
Red Single Blink (ON / Pause)	Transfer System Failure	Factory Service
Red Three Blinks (ON / Pause)	Charger Failure	Factory Service
Red Five Blinks (ON / Pause)	Lamp Failure	Check Remote Connection / Factory Service

BATTERY REPLACEMENT

To replace battery, disconnect branch circuit and remove reflector assembly from the unit. See Figure 3. Unplug battery connector from printed circuit assembly. Replace battery and reinstall reflector assembly.

For the **EM Sentry II**, the unit will be supplied with a Nickel Cadmium (Ni-Cd) battery, replace with part number **B310023** only.

For the **SD Sentry II**, the unit will be supplied with a Nickel Metal Hydride (Ni-MH) battery, replace with part number **B350009** only. Do not interchange battery types.

Used batteries may not be disposed of in the municipal solid waste stream. For information on local recycling drop-off points, phone toll free 1-800-BATTERY (1-800-228-8379).

Sentry II SD Battery Replacement Only:

Using the Remote:

- Press and hold the 90 seconds test button for up to 10 seconds until the LEDs turn off on their own.

Using the Test Button:

- Press and hold the switch for up to 10 seconds until the LEDs turn off on their own. During both procedures: The red/green **INDICATOR** light will **FLASH** erratically for 10 seconds and then change to solid red once the main LEDs turn off. This indicates that the battery reset has been triggered.

NOTE: The fixture will not respond to any remote or switch operations until the battery conditioning is complete, which may take a few hours. However, it will respond to power loss, but full run-time is **NOT** guaranteed until both conditioning and 24-hour charge cycles are completed.

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