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202 Elk Street, PO Box 160
Elkton, SD 57026
Customer Service: (605) 531-5588

IX - WG SERIES

Invisi-X Exit Sign

Window Glass Frame Surface Mounting

INSTALLATION INSTRUCTIONS

Ordering Information

Exit Sign:

IX - Invisi X Exit Sign, 6 Inch High Letters And Arrows

Mounting Style:

WGB - Window Glass Frame Mounting Bottom Base

WGT - Window Glass Frame Mounting Top Mounting base

WGR - Window Glass Frame Right End Mounting Base

WGL - Window Glass Frame Left End Mounting Base

Illuminated Letters / Arrows:

R - Red

G - Green

Power Options:

AC - AC Only Universal 120/277 Volt 60 Hz input

EM - Emergency Battery Backup 4 Hour Run Time Self-Diagnostic Universal 120/277 Volt 60 Hz input

Exit Sign Faces:

SF - Single Face

DF - Double Face Available With Mounting Types

(CP,EWR,EWL,WGB,WGT,WGR,WGL,SMCP,SMHW,SMEWR,SMEWL,SC)

Arrow Configurations:

NA - No Arrows

LA - Left Arrow

RA - Right Arrow

BA - Both Arrows

SA - Single Arrow (Double Face)

IA - Inner Arrows, (Arrows Next To Wall Mounting) Available With Mounting Types (EWR,EWL,GWR,GWL,SMEWR,SMEWL)

OA - Outer Arrows (Arrows Away From Wall Mounting) Available With Mounting Types (EWR,EWL,GWR,GWL,SMEWR,SMEWL)

Options:

NYC - New York City 8 Inch Red Letters

CF - Custom Finish Per Fixture Note U.S. RAL# Required

(Specify Color When Ordering) Available With Mounting Types

(SMCP,SMHW,SMEWR,SMEWL,SC)

PLCS - Custom Post Length and Ceiling Slope Degree Angle, Per Sign Dimension Specified In shop drawing PDF.

REM - Remote Power Enclosure is available with (CP,EWL,EWR) Mounting Types and Both Emergency Battery Back Up and AC Only power configurations. The REM enclosure can be located up to 50 feet in distance. (Remote Power Unit is standard for all other Mounting types)

NFPA 72 Standards
Tested to UL Standards





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Important Safeguards **Read and Follow All Safety Instructions**

- ✓ Damp label rated for outdoor applications.
- ✓ Do not mount units where they will be exposed to direct sunlight, radiators, gas or electric heaters. Prolonged exposure to temperatures exceeding 95 degrees Fahrenheit may reduce battery life and void warranty.
- ✓ Use caution when servicing batteries. Battery acid causes burns to skin and eyes. If acid is spilled on skin or in eyes, flush with fresh water and contact a physician immediately.
- ✓ Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- ✓ Do not store or place flammable materials near lamps.
- ✓ The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- ✓ Do not use this equipment for any purpose other than for its intended use.
- ✓ Before wiring to AC service, turn off AC power at fuse or circuit breaker supplying unit.
- ✓ Battery in this unit (if self-contained battery backup series) may not be fully charged. After the AC service is supplied to unit, let the battery charge for at least 48 hours before performing any tests.
- ✓ Qualified service personnel should perform servicing of this equipment.

Failure to follow published installation instructions or any modifications to the product may damage the unit and will void the warranty.



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WARNING! To avoid fire, shock/electrocution, or injury ... **TURN OFF POWER** at circuit breaker or fuse and test to ensure that power is off before wiring. Remove and discard the packaging materials.

Window Glass Frame Surface Mounting

Step #1: Determine Location

This unit is designed for surface Window Glass (WG) frame mounting, or directly On Glass (OG) [optional mounting], for indoor building construction, including outdoor damp locations.

Determine exit sign egress viewing location as directed by governing Codes, including National and local Code requirements.

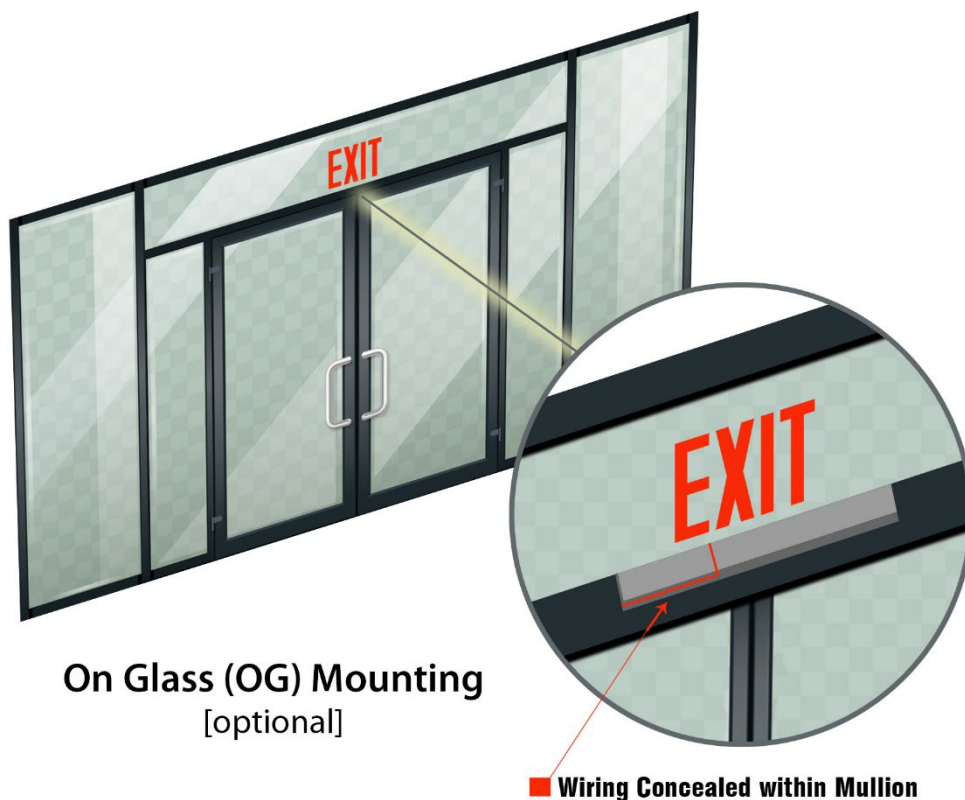
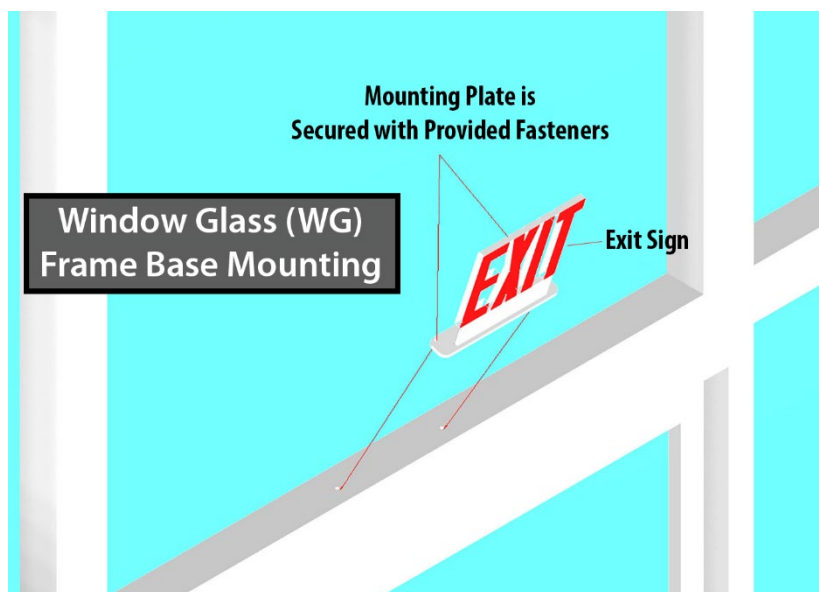
The exit sign fixture should only be installed into a completely clear, unobstructed window frame mounting area which allows the sign face to be positioned best for visibility as required by Code. Confirm that the optional arrow(s) have been configured correctly for visibility as required by Code.

NOTE: Do not cut or remove any portion of the clear or colored areas of the electroluminescent (EL) letter and arrow illuminated panels. ***Modifying the EL panels will void product warranty.***

1. The letter signage requires a 12" wide by 8" high clear space.
2. Locate the provided 120 VAC clear jacketed power cord that extends from the EL panel signage.
3. Choose routing of the 120 VAC clear jacketed power cord along the surface area of the window mullion from signage or into interior of window frame raceway. Utilize protective measures where the power cord is routed into the window frame by using the protective bushing provided or equivalent protective measures.
4. Convert power cord path from National Electrical Code conduit raceway connections to a remote recessed junction back box.
5. Provide continuous continuity of two-wire branch circuiting from junction box termination location to the remote location of the Invisi-X power pack unit.

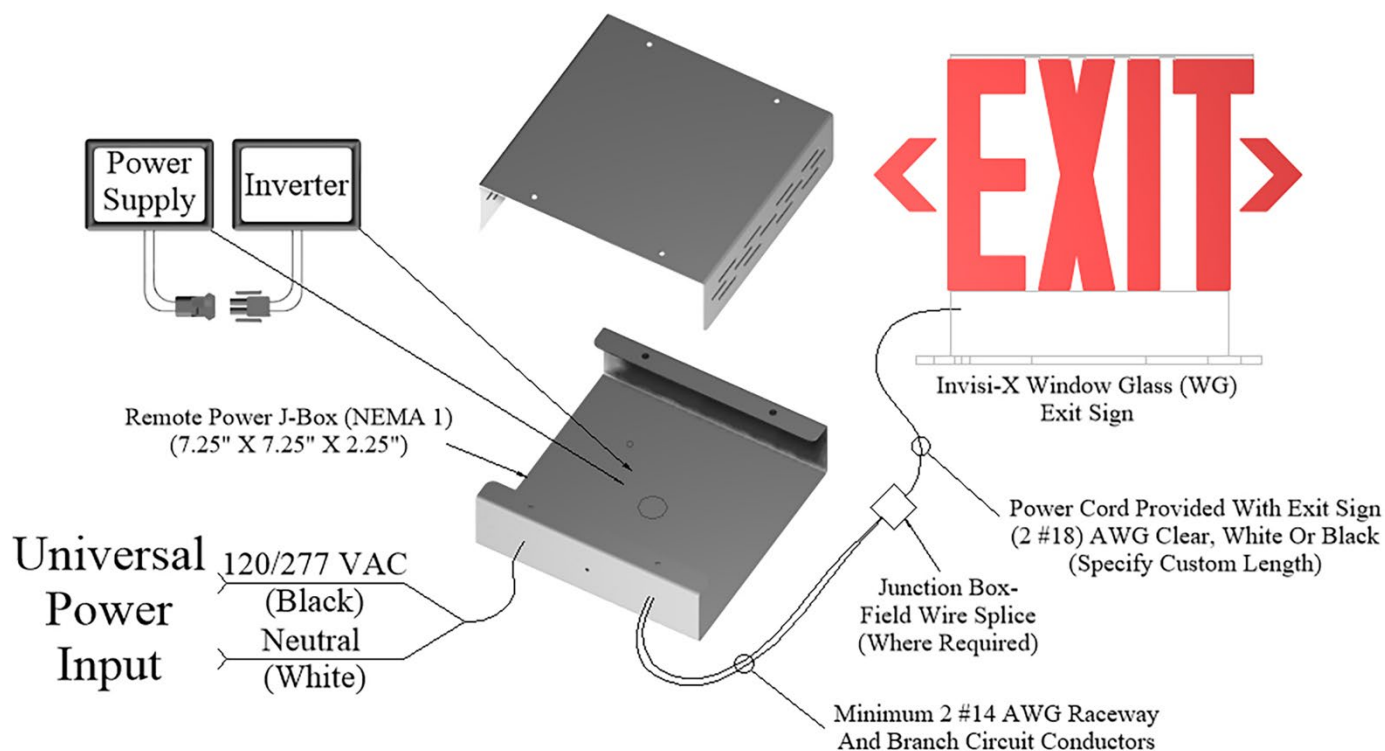
Step #2: Begin Installation

1. Locate the exact position desired for the window glass frame mounted exit signage.
2. Complete the mounting of the signage by installing the two (2) self-tapping #8-32 mounting screws through the signage base and into the mounting surface. Do not tighten with excessive force which may cause damage to the signage base.

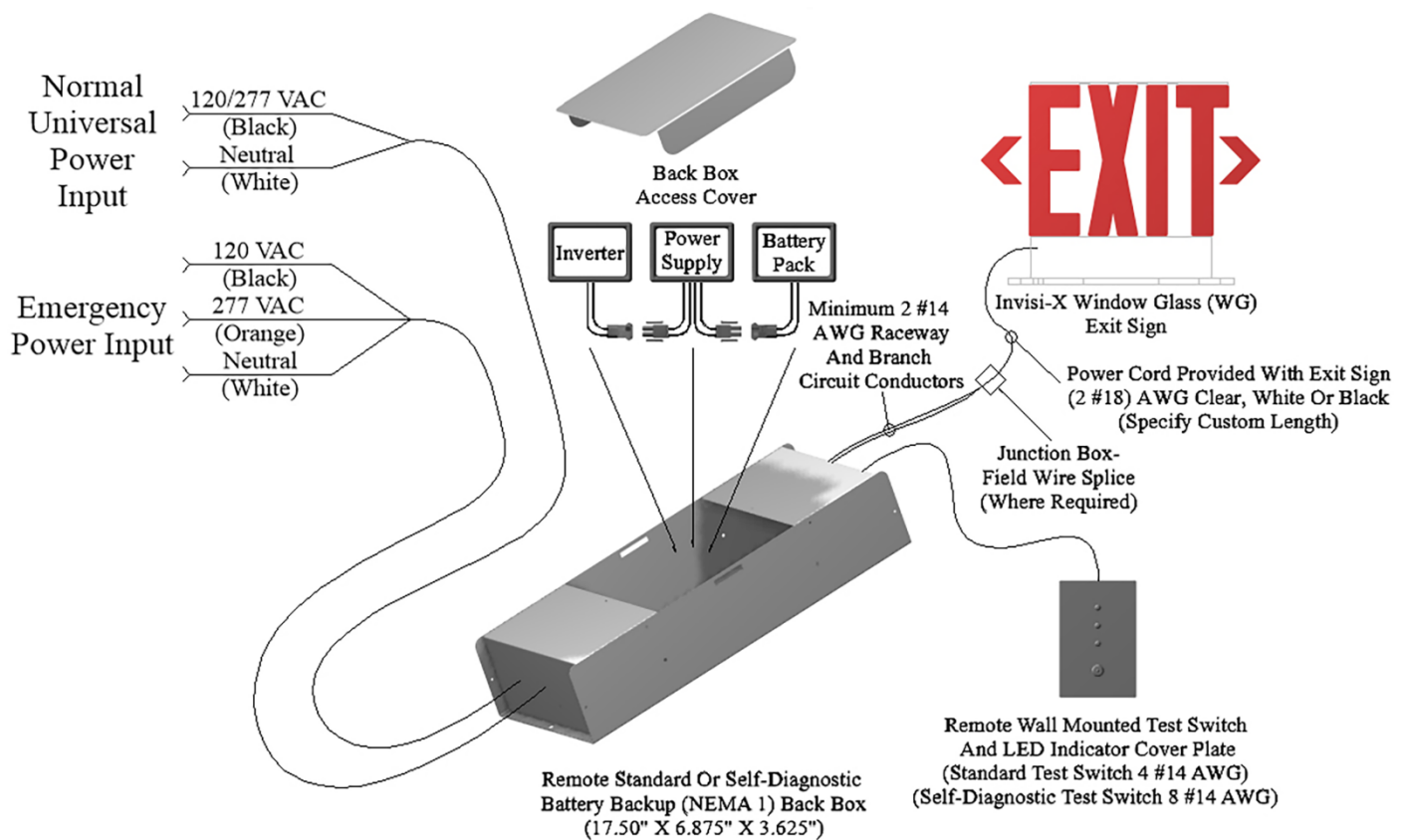


Step #2: Power Pack Unit Installation

1. Provide a single, unswitched supply from either a 120 VAC or 277 VAC branch circuit used for normal lighting in the egress room area.



Invisi-X Window Glass (WG) AC Only Wiring Diagram And Component Configuration

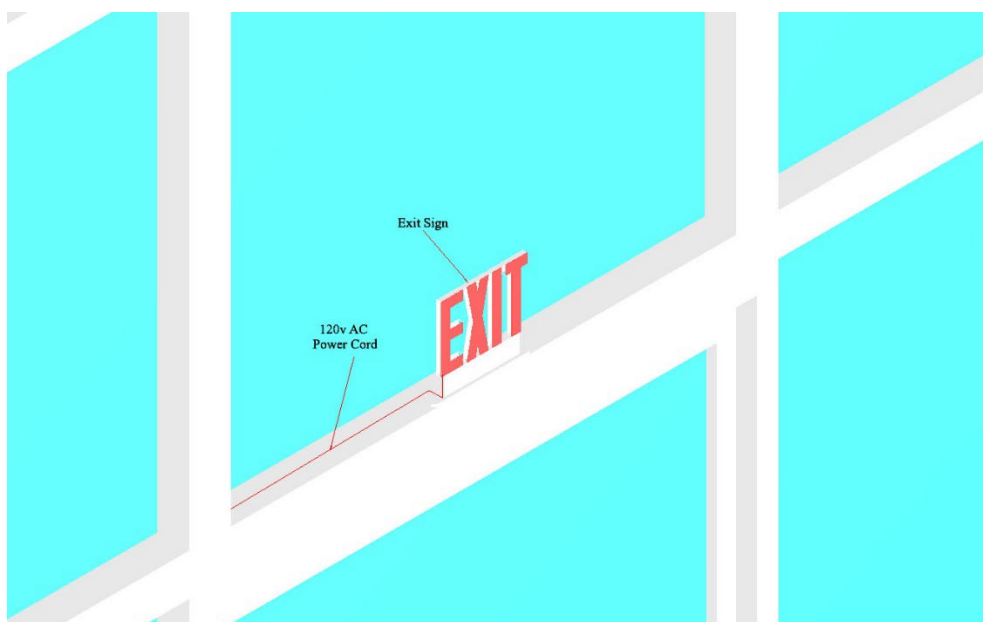


Invisi-X Window Glass (WG) Remote Test Switch -
Standard & Self - Diagnostic (SD)
Wiring Diagram And Component Configuration

Step #2: Power Pack Unit Installation [continued]

2. Provide ground conductor connections to the remote power pack unit, with only UL recognized wire nuts, between green conductor leads, and all branch circuit ground conductors within the back box.
3. Provide connections to the remote signage incoming 120 VAC where concealed with two (2) #10 AWG copper branch circuit conductors between the remote window glass frame mounted exit signage, and the remotely located power supply source, with connectors provided.

Step #4: Energizing the Illuminated Exit Sign



NOTICE: Do not energize the incoming branch circuit power to exit sign fixture power supply assembly unit until the entire installation is complete.

1. Immediately after completing the entire fixture installation, apply AC power to the exit sign fixture power pack. Confirm proper arrow configuration and that the exit sign fixture is illuminated.
2. If using the optional battery backup, allow a minimum of 24 hours charge time for the battery backups for the exit signs prior to emergency mode discharge use.



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Troubleshooting: Symptoms and Possible Corrective Measures

➤ *Unit does not operate illuminate.*

- 1) Verify AC power is energized to the unit.
- 2) Replace LED charger board.

➤ *Unit does not illuminate during emergency mode.*

- 1) Verify battery backup keyed male/female plug connection is secure.
- 2) Install new battery backup pack.
- 3) Contact factory.

Routine Care: Taking a Unit Out of Service

If a unit is to be deliberately taken out of service for an extended period, and when the unit includes optional EM separate emergency power battery/charger unit, the optional emergency unit male/female keyed plug-in connector within the exit sign LED circuit board area should be disconnected from the battery pack so that the battery pack will go into storage in a fully charged condition. Disconnect and remove the input 120VAC or 277VAC, as applicable, power connections as per emergency power unit manufacturer's recommendations. If there is any chance that a unit taken out of service may later be used on a different VAC circuit, tag the unit's current primary input selection as either 120VAC or 277VAC, as applicable.

Warranty

All Concealite fixtures are tested and are guaranteed to be free from defective materials and workmanship for a period of three years (3) from date of shipment, under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations. We will not allow any charge for labor, materials, etc. that does not have our written approval before the work has begun. Damage incurred in handling or in transit are not covered. Any other warranty, expressed or implied, is hereby void. Modifications to the product or failure to follow these installation instructions will void the warranty.

Save These Instructions