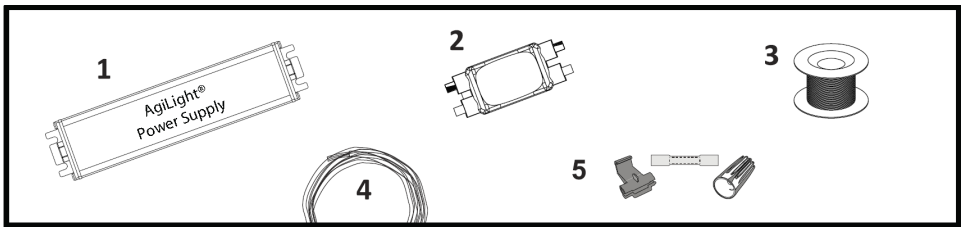
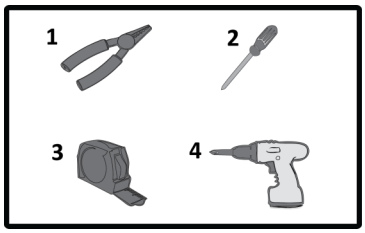
SignRayz® ULTRA MINI COLOR

STOP **Read Instructions Completely Before Installation. Altering The Product In Any Way Voids The Warranty.** **STOP**





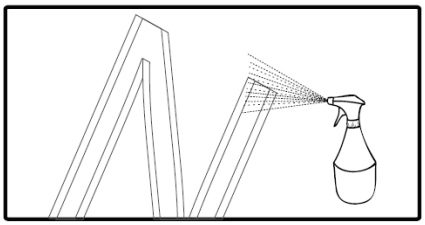
Components:

1. AgiLight® Class II Power Supply
2. AgiLight® SignRayz® ULTRA MINI COLORS modules
3. Minimum 24 AWG (0.82mm) wire-(UL Listed)
   *Under certain conditions, a heavier gauge wire may be necessary
4. PLTC Cable- (UL Listed)
5. Wire connectors, wire nuts, IDC, or butt splice connectors (UL Listed)

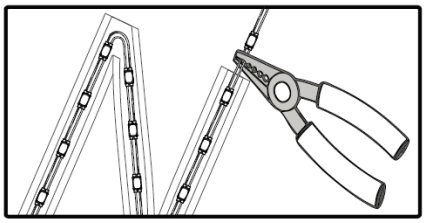
Tools:

1. Wire Strippers
2. Screw Driver
3. Taper Measurer
4. Drill w/ (1/4" bit)

LED Module Installation

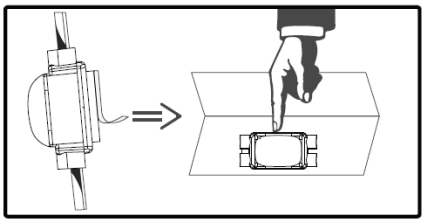


1.Clean inside of the sign with denatured alcohol. Allow alcohol to dry before proceeding.

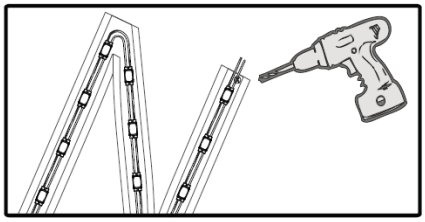


2.Place LED modules in the sign according to AgiLight® layout or Population Density Guide. Cut product accordingly

*Product may be cut in between modules

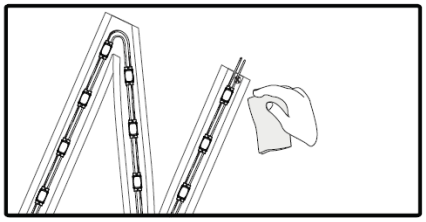


3.To adhere the LED module to the sign's back panel, remove liner from tape and firmly press the module in place. Repeat process for the rest of the layout.



4.Drill a hole near the beginning of the string of LED modules and fit with an insulator for feeding power supply wire to the modules.

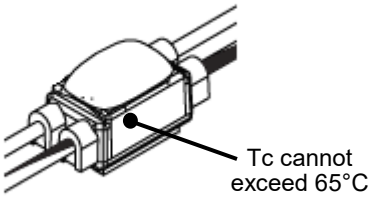
*Access hold should be approximately 1/4 inch (6.4mm) in diameter, minimum.



5.Remove debris and clean the inside of channel.

12V DC

LM-79 LM-80



WARNING– READ BEFORE WIRING

1. Must use General LED's Class 2 power supply rated for 12 volts DC or less; proper wire gauge to connect to LED modules.
2. Check polarity for DC standard, **BLACK (-) to BLACK STRIPE (-)** and **RED (+) to WHITE (+).**
3. UL 48 Standard requires a spacing between power supplies be at least 1 inch (25.4mm) from end to end, and 4 inches (101.6mm) from side to side.
4. Do not overload power supply and do not use products in submersed applications.
5. Ground and bonding of the LED power supply must be done in accordance with National Electric Code (NEC) Article 600.
6. Follow all National Electric Codes (NEC) and local codes.

AgiLight Inc. 1074 Arion Circle, Suite 116, San Antonio, TX 78216, United States of America, +1.866.482.0203 www.AgiLight.com

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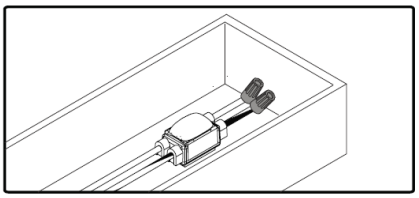
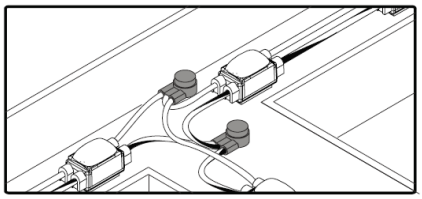
SignRayz® ULTRA MINI COLOR

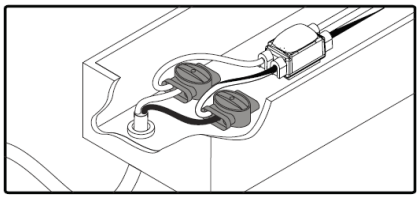
Wiring Instructions



1. Use appropriate wire connectors to cover the ends of exposed wires not being used as a connection point.

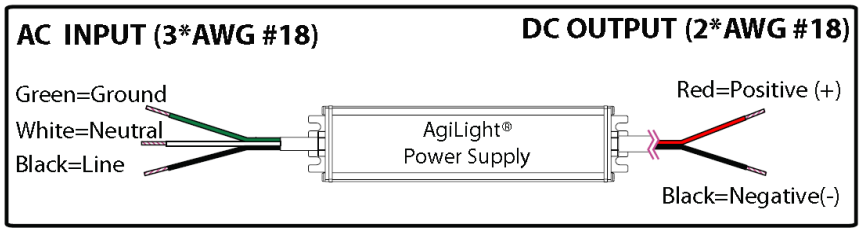


2. To connect (splice) wires, use an in-line (IDC) connector, butt connector or a twist–on wire connector.



3. Connect the power supply to the product via the access hole in the sign's back.

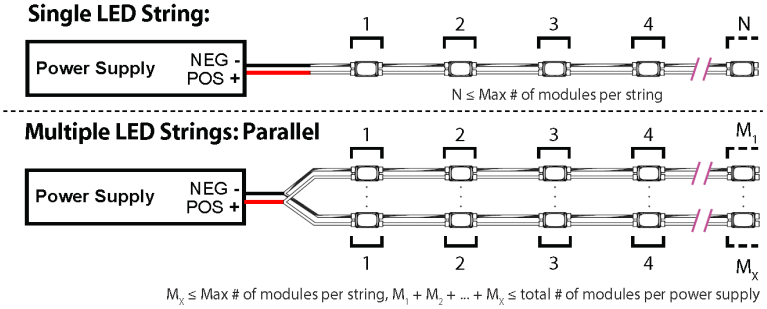
Power Supply Wiring Instructions



Note:

*Have a licensed electrician make connections to primary (AC) input.
*Per NEC 2008 Article 725.121 through 725.130, secondary class 2 cables do not require conduit when installing.
*Seal all wall penetrations with silicone to avoid intrusion of water.

Wiring Diagram for: SignRayz® ULTRA MINI COLORS LED modules



Power Supply Load Chart

Model	Modules 60W	
	Single String	Parallel Strings Total
LS-UMIN-TRD-L4-50A	200	460
LS-UMIN-GRN-L4-50A	200	460
LS-UMIN-BLU-L4-50A	200	460
LS-UMIN-TRD-L4-35A	245	460
LS-UMIN-GRN-L4-35A	245	460
LS-UMIN-BLU-L4-35A	245	460

LED Module to Power Supply Wire Size

Wire Size		Maximum Distance*	
Gauge (AWG)	Metric (mm^2)	Feet	Meters
26	0.13	3	0.9
24	0.21	4	1.2
22	0.33	7	2.1
20	0.52	11	3.4
18	0.82	18	5.5
16	1.31	29	8.8
14	2.08	45	13.7
12	3.31	71	21.6
10	5.26	120	36.6

*Distance from 60 watt power supply to load at full capacity

Troubleshooting

Problem	Possible Cause
All LED modules are OFF or some of the LED modules are not illuminated.	1. Power supply may not be loaded properly with LED modules. 2. Wrong Power Supply. Must be constant current. 3. Bad or loose connections.
Entire section does not light or lights intermittently.	1. Bad, loose, or improper connections. 2. Power supplies are spaced too close together; overheating. Note: Spacings between LED power supplies shall be at least 1 inch (25.4mm) from end to end, and 4 inches (101.6mm) from side to side.
LEDs flicker or appear dim.	1. Power supply may not be properly loaded with LED modules. 2. Power supply may be damaged or defective. 3. Power supply may not be wired correctly. Check AC input wiring. (Green to Ground, Black to Black, and White to White).

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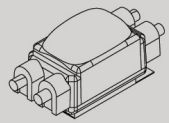
AGILIGHT®
Light It Up

EU Montageanleitung (DE)
EU Installation instruction (EN)
EU Instruction de montage (FR)
EU Istruzioni di montaggio (IT)
EU Instrucciones de montaje (ES)

SignRayz® ULTRA MINI COLORS



FR

Instruction de montage :

> La chaîne modulaire peut être coupée sur la longueur désirée (fig. 1 et 2).
> Pour garantir un éclairage uniforme, veiller à respecter la même distance entre les modules lors du montage.
> Avant de coller les modules, nettoyer les surfaces de montage à fond avec des nettoyants appropriés, comme l'isopropanol dilué dans l'eau (50-50).
> Les surfaces adhésives des modules n'atteignent leur résistance définitive qu'après 24 h environ.
> Eliminer l'emballage correctement en respectant les prescriptions locales en vigueur.

⚠ DANGER !

Danger de mort dû à l'électrocution

> Avant le raccordement du convertisseur, couper la tension d'alimentation.
> Monter les modules à l'état sec.

NOTE !

Un montage incorrect risque de se traduire par une durée de vie moindre et une défaillance des modules à court terme !

> Respecter la température ambiante : -40 ... +60 °C
> Respecter la température de surface maximale : 65 °C
> Respecter la tension de service max. admissible : 12 V DC -0.6 V / +1.2 V
> Respecter la polarité : rouge (+); blanc (-)
> Pour conserver l'indice de protection IP68, il faut utiliser
> des connexions, bagues d'extrémité et passages de boîtiers respectifs.
> Respecter les indications concernant le produit et le câblage dans la fiche technique.

IT

Istruzioni di montaggio:

> La catena di moduli può essere adattata alla rispettiva lunghezza necessaria (fig. 1 e 2).
> Per ottenere una illuminazione uniforme, i moduli dovrebbero essere montati alla stessa distanza tra di loro.
> Prima di incollare i moduli, pulire accuratamente le superfici di montaggio con un detergente idoneo, p. es. miscela di acqua-isopropanolo (50-50).
> Le superfici incollate dei moduli raggiungono la loro piena rigidità solo dopo 24 ore circa.
> Smaltire a regola d'arte la confezione, secondo le leggi locali vigenti.

⚠ PERICOLO!

Pericolo di morte dovuto da scossa elettrica

> Staccare la tensione di rete prima di collegare il convertitore.
> Montare i moduli in stato asciutto.

INDICAZIONE!

Il montaggio sbagliato può ridurre la durata oppure i moduli possono avariare in breve tempo!

> Osservare la temperatura ambiente: -40 ... +60 °C
> Osservare la temperatura massima delle superfici: 65 °C
> Osservare la tensione d'esercizio massima consentita: 12 V DC -0.6 V / +1.2 V
> Osservare la polarità: rosso (+); bianco (-)
> Per mantenere il tipo di protezione IP68, utilizzare corrispondenti collegamenti, boccole terminali e esecuzioni scatola.
> Osservare le indicazioni e informazioni riportate nella scheda tecnica del prodotto e per il cablaggio.

ES

Instruction de montage :

> La cadena de los módulos se puede adaptar a la longitud necesaria (fig. 1 y 2).
> Para que iluminación sea uniforme, los módulos tienen que montarse guardando la misma distancia entre sí.
> Antes de pegar los módulos, hay que limpiar bien la zona de montaje con un limpiador adecuado, p. ej., con una mezcla de isopropanol/agua (50-50).
> Las superficies adhesivas de los módulos tardan unas 24 horas en alcanzar su capacidad completa de adherencia.
> Hay que deshacerse de los envases de forma adecuada de conformidad con la legislación local vigente.

⚠ ¡PELIGRO!

Peligro de muerte por descarga eléctrica

> Desconectar la tensión de alimentación antes de conec tar el convertidor.
> Montar los módulos cuando estén secos.

¡INDICACIÓN!

¡Un montaje efectuado de forma incorrecta puede reducir la vida útil o provocar que los módulos fallen a corto plazo!

> Observar la temperatura ambiente: -40 ... +60 °C
> Observar la temperatura máx. de las superficies: 65 °C
> Observar la tensión de servicio máx. admisible: 12 V DC -0.6 V / +1.2 V
> Observar la polaridad: rojo (+); blanco (-)
> Para mantener el modo de protección IP68 hay que usar conexiones, manguitos de empalme y pasos de cables de caja adecuados.
> Observar los datos de la ficha técnica del producto y del cableado.

DE

Montageanleitung:

> Die Modulkette kann auf die jeweils benötigte Länge zugeschnitten werden (Abb. 1 und 2).
> Für eine gleichmäßige Ausleuchtung sollten die Module m gleichen Abstand zueinander montiert werden.
> Vor dem Aufkleben der Module Montageflächen gründ lich mit geeignetem Reinigungsmittel, z. B. Isopropanol-Wasser (50-50) reinigen.
> Die Klebeflächen der Module erreichen ihre volle Festigkeit kerst nach ca. 24 Stunden.
> Verpackung gemäß den örtlich geltenden Gesetzen fachgerecht entsorgen.

⚠ GEFAHR!

Lebensgefahr durch Stromschlag

> Vor dem Anschluss des Konverters Netzspannung trennen.
> Module im trockenen Zustand montieren.

HINWEIS!

Falsche Montage kann die Lebensdauer reduzieren oder die Module können kurzfristig ausfallen!

> Umgebungstemperatur beachten: -40 ... +60 °C
> Max. Oberflächentemperatur beachten: 65 °C
> Max. zulässige Betriebsspannung beachten: 12 V DC -0.6 V / +1.2 V
> Polarität beachten: rot (+); weiß (-)
> Zum Erhalt der Schutzart IP68 entsprechende Verbindungen, Endhülsen und Gehäusedurchführungen verwenden.
> Angaben im Datenblatt zum Produkt und zur Verdrahtung beachten.

EN

Installation instruction:

> The module chain can be cut between each module to the necessary length (fig. 1 and 2).
> When mounting the modules, they should be spaced equally to ensure uniform illumination.
> Clean the mounting surfaces thoroughly before gluing on the modules, for example, using isopropyl diluted with water (50:50).
> The adherends on the modules attain their full strength only after approx. 24 hours.
> Disposal of packaging in compliance with the local laws.

⚠ DANGER!

Hazard of death by electrocution

> Before connecting the converter, disconnect the mains voltage.
> Ensure that the modules are dry when mounting.

WARNING!

Improper mounting can reduce the life of the modules or cause them to fail within a short time!

> Observe ambient temperature: -40 ... +60 °C
> Observe max. surface temperature: 65 °C
> Observe max. permissible operating voltage: 12 V DC -0.6 V / +1.2 V
> Observe polarity: red (+); white (-)
> To ensure compliance with type of protection IP68, use appropriate connectors, end ferrules and grommets on the casing.
> Observe the product and wiring specifications listed in the data sheet.

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