

NERLITE EDGE-TO-EDGE BACKLIGHTS CONFIGURATION GUIDE



Part Number	Description	Continuous Current	Strobe Current	Fan Cooled	Continuous Operation		Strobe Operation	Connection Notes Reference Number (See the Connection Notes on back of page)
					No Controller Required (Can be Connected Directly to 24VDC)	NL-2XX Optional (Used only if Intensity and/or Ethernet Control Is Desired)	NL-2XX (Required)	
NER-011659300G	BL 47X59 Red Continuous	93mA	NA		Figure A	Figure B		7
NER-011659301G	BL 47X59 Red Strobe	NA	2.67A				Figure B	7
NER-011659310G	BL 47X59 White Continuous	201mA	NA		Figure A	Figure B		7
NER-011659400G	BL 71X88 Red Continuous	170mA	NA		Figure A	Figure B		7
NER-011659401G	BL 71X88 Red Strobe	NA	5.01A				Figure B	7
NER-011659410G	BL 71X88 White Continuous	330mA	NA		Figure A	Figure B		7
NER-011659500G	BL 100X100 Red Continuous	155mA	NA		Figure A	Figure B		7
NER-011659501G	BL 100X100 Red Strobe	NA	4.99A				Figure B	7
NER-011659510G	BL 100X100 White Continuous	350mA	NA		Figure A	Figure B		7
NER-011659600G	BL 50X200 Red Continuous	155mA	NA		Figure A	Figure B		7
NER-011659601G	BL 50X200 Red Strobe	NA	4.99A				Figure B	7
NER-011659610G	BL 50X200 White Continuous	350mA	NA		Figure A	Figure B		7

⚠ If using this product in strobe mode with an NL-2XX Series Lighting Controller, refer to the warning on the back of this document.

Hardware Required

Item	Description	Part Number
1	Edge-To-Edge Backlights	NER-011659XXXXG
2	Power Supply DSP60 24VDC 2.5A DIN Mount	NER-011504100
3	NL-200 Series Lighting Controller	98-000152-0X
4	Cable 4 Pin M12 Female To Flying Leads	NER-030029100

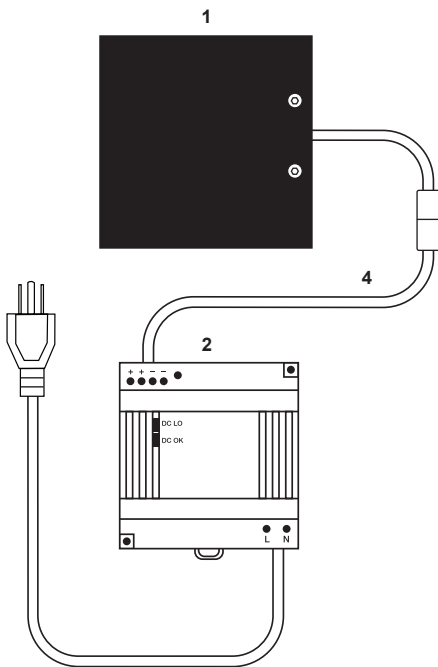


Figure A
Edge-to-Edge Backlight Series Illuminator with power supply

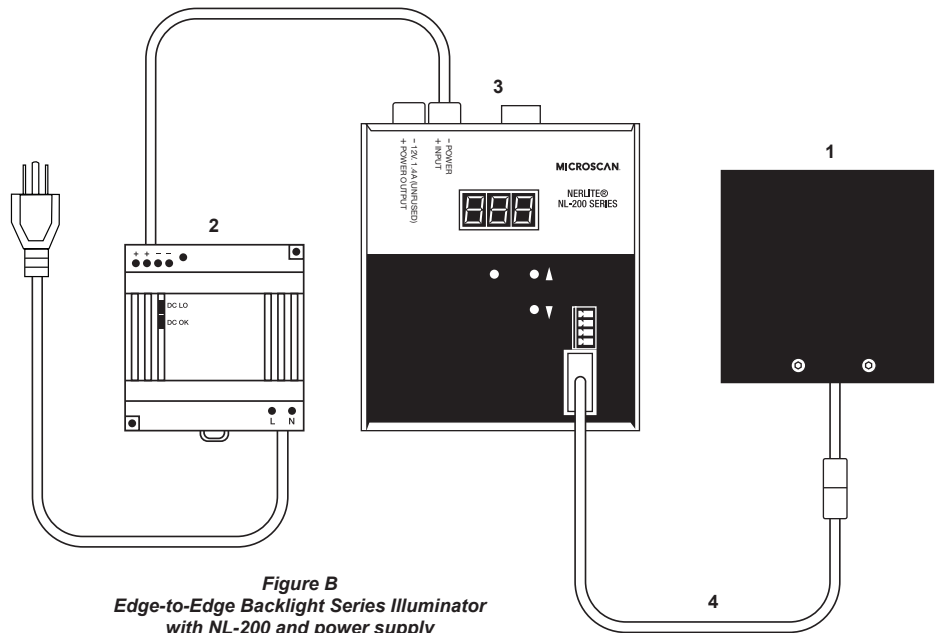


Figure B
Edge-to-Edge Backlight Series Illuminator with NL-200 and power supply

NERLITE Edge-to-Edge Backlights

AC Power Cord US	NER-030028300	Power Cord For Power Supply
AC Power Cord EU	NER-030028400	Power Cord For Power Supply
AC Power Cord UK	NER-030028500	Power Cord For Power Supply
CBL, M12F-FLYING LEADS, 4.5M [15FT]	NER-030029100	Connect Backlight To Power Supply Or Controller

WARNING! When connecting a strobe light to an NL-2XX Series Lighting Controller, you must set the current rating to 10% of the current specified for the light in this document.

The NL-2XX Series Controller allows the operator to set the brightness (current) to 1000% in strobe mode. By setting the initial current rating to 10% of the light's specified current, a brightness setting of 1000% results in the light receiving 100% of its rated current. This will provide maximum light output without damaging the light.

Note: Certain lights require both channels of the NL-2XX Series Lighting Controller. Channel 1 and Channel 2 may have different current specifications on some models. Be sure each channel is set correctly as specified in this document.

General Notes:

1. Those lights that do not require a controller require 24VDC +/- 1%.
2. The NL-2XX series controllers require 24 to 48VDC.
3. The cable on all flying lead models is terminated with three, five, or seven leads. Each lead is labeled. See "Connection Notes" for connection instructions.
4. For all models with M12 connectors, the connector is a 4 pin, male, M12 connector. See "Connection Notes" or connector pin out and connection instructions.
5. All models with separate fan circuits must have 24VDC connected to the fan circuit at all times when the light is operating.
6. When operating in strobe mode at the maximum rated current, the maximum pulse width = 1mS and the maximum duty cycle = 6%. See the NL-2XX series controllers' manual for pulse width and duty cycle limitations under various conditions.

Connection Notes:

1. Connect the lead labeled "V+" to the positive(+) output terminal of the power supply or controller. Connect the lead labeled "GND" to the negative(-) output terminal of the power supply or controller. Connect the lead labeled "Shield" or "SHLD" to chassis ground.
2. Connect the lead labeled "V+" to the positive(+) output terminal of the power supply or controller. Connect the lead labeled "GND" to the negative(-) output terminal of the power supply or controller. Connect the lead labeled "Fan V+" to the positive(+) output terminal of a 24VDC power supply. Connect the lead labeled "Fan GND" to the negative(-) output terminal of a 24VDC power supply. Connect the lead labeled "Shield" to chassis ground.
3. Connect the lead labeled "V+1" to the positive(+) output terminal of channel 1 on an NL-2XX series controller. Connect the lead labeled "GND1" to the negative(-) output terminal of channel 1 on the NL-2XX series controller. Connect the lead labeled "V+2" to the positive(+) output terminal of channel 2 on the NL-2XX series controller. Connect the lead labeled "GND2" to the negative(-) output terminal of channel 2 on the NL-2XX series controller. Connect the lead labeled "Shield" to chassis ground.
4. Connect the lead labeled "+" to the positive(+) output terminal of the power supply or controller. Connect the lead labeled "-" to the negative(-) output terminal of the power supply or controller. Connect the cable's braided shield to chassis ground.
5. Connect the lead labeled "DOAL V+" to the positive(+) output terminal of channel 1 on an NL-2XX series controller. Connect the lead labeled "DOAL GND" to the negative(-) output terminal of channel 1 on the NL-2XX series controller. Connect the lead labeled "Ring V+" to the positive(+) output terminal of channel 2 on the NL-2XX series controller. Connect the lead labeled "Ring GND" to the negative(-) output terminal of channel 2 on the NL-2XX series controller. Connect the lead labeled "Fan V+" to the positive(+) output terminal of a 24VDC power supply. Connect the lead labeled "Fan GND" to the negative(-) output terminal of a 24VDC power supply. Connect the lead labeled "Shield" to chassis ground.
6. Connect the two leads labeled "RING 1, 2 V+" & "RING 3 V+" to the same positive(+) output terminal of the power supply or controller. Connect the two leads labeled "RING 1, 2 -" & "RING 3 -" to the same negative(-) output terminal of the power supply or controller. Connect the lead labeled "Shield" to chassis ground.
7. Connect Pin 1 of the M12-M connector to the positive(+) output terminal of the power supply or controller. Connect Pin 3 of the M12-M connector to the negative(-) output terminal of the power supply or controller. Connect the shell of the M12-M connector to chassis ground. Pins 2 and 4 are not used.