

NERLITE SPOT LIGHT SERIES ILLUMINATORS

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)	Controller Required (Select NL2XX Series Controllers)	Optional (Used only if Intensity And/Or Ethernet Control is Desired)	NL-2XX Required	
NER-011656003G	S-20 Red	350mA	500mA			Figure B	Figure B	Figure B	1
NER-011656013G	S-20 White	700mA	1.00A			Figure B	Figure B	Figure B	1
NER-011657600G	S-20 Ultraviolet	350mA	500mA			Figure B	Figure B	Figure B	1
NER-011657601G	S-20 Ultraviolet	700mA	1.00A			Figure B	Figure B	Figure B	1
NER-011650323	S-40 Red Continuous, Non-Diffuse	63mA	NA		Figure A		Figure B	Figure B	1
NER-011650304	S-40 Red Strobe, Non-Diffuse	NA	600mA					Figure B	1
NER-011650320	S-40 Red Continuous, Diffuse	63mA	NA		Figure A		Figure B	Figure B	1
NER-011650305	S-40 Red Strobe, Diffuse	NA	600mA					Figure B	1
NER-011651220	S-40 White Continuous, Non-Diffuse	45mA	NA		Figure A		Figure B	Figure B	1
NER-011651204	S-40 White Strobe, Non-Diffuse	NA	1.00A					Figure B	1
NER-011651211	S-40 White Strobe, Diffuse	NA	1.00A					Figure B	1

⚠ 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	S Series Illuminators	NER-01165XXXXX
2	Power Supply DSP60 24VDC 2.5A DIN Mount	NER-011504100
3	NL-200 Current Controller Series	98-000152-0X

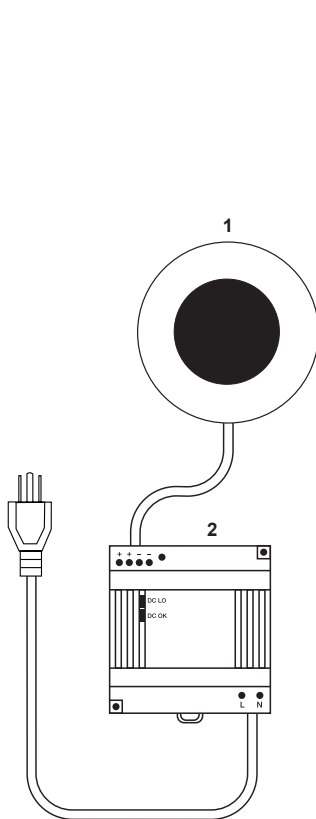


Figure A
Spot Light Series Illuminator
with power supply

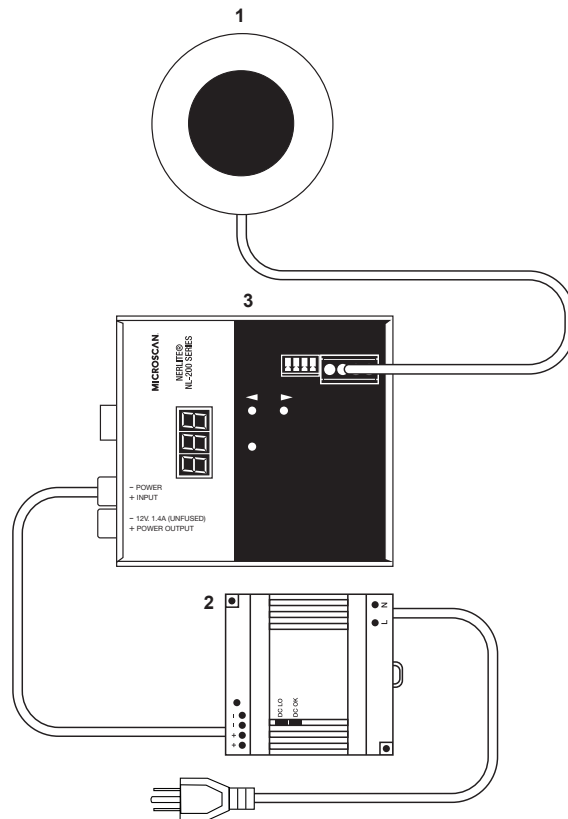


Figure B
Spot Light Series Illuminator
with NL-200 Controller and power supply

Accessories

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

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.