

NERLITE AREA ARRAY SERIES ILLUMINATORS

CONFIGURATION GUIDE

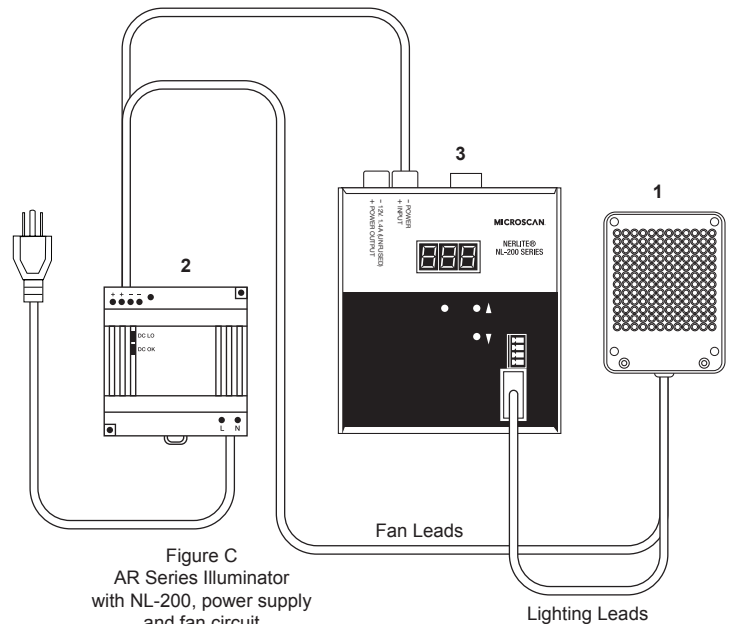
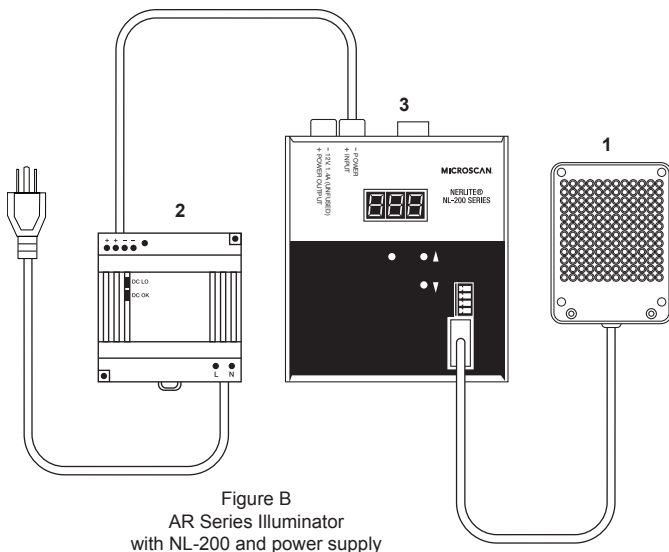
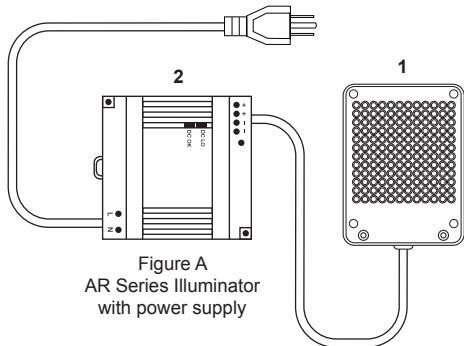


Part Number	Description	Continuous Current			Strobe Current		Fan Cooled	Continuous Operation			Strobe Operation	Connection Notes Reference Number (See the Connection Notes on back of page)
		Lighting	Fan		Lighting Channel 1	Lighting Channel 2		No Controller Required (Can be Connected Directly to 24VDC)	Controller Required (Select NL2XX Series Controllers)	NL-2XX Optional (Used only if Intensity And/Or Ethernet Control is Desired)		
NER-011652115	AR-50x50-HO, Red Continuous	160mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652131	AR-50x50-HO, Red Strobe	NA	NA		3.20A	NA				Figure B	1	
NER-011652114	AR-50x50-HO, White Continuous	204mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652133	AR-50x50-HO, White Strobe	NA	NA		2.88A	NA				Figure B	1	
NER-011652125	AR-50x50-HO, Blue Continuous	204mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652135	AR-50x50-HO, Blue Strobe	NA	NA		2.88A	NA				Figure B	1	
NER-011652143	AR-50x50-HO, Infrared Continuous	100mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652144	AR-50x50-HO, Infrared Strobe	NA	NA		1.59A	NA				Figure B	1	
NER-011652138	AR-50x50-HO Ultraviolet Continuous	176mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652137	AR-50x50-HO Ultraviolet Strobe	NA	NA		519mA	NA				Figure B	1	
NER-011903401	AR-75x75-HO, Red Continuous	420mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652171	AR-75x75-HO, Red Strobe	NA	NA		4.80A	NA				Figure B	1	
NER-011903502	AR-75x75-HO, White Continuous	369mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652173	AR-75x75-HO, White Strobe	NA	NA		9.41A	NA				Figure B	1	
NER-011903503	AR-75x75-HO, Blue Continuous	369mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652175	AR-75x75-HO, Blue Strobe	NA	NA		9.41A	NA				Figure B	1	
NER-011652182	AR-75x75-HO, Infrared Continuous	240mA	NA		NA	NA		Figure A		Figure B	1	
NER-011904006	AR-75x75-HO, Infrared Strobe	NA	NA		5.04A	NA				Figure B	1	
NER-011652181	AR-75x75-HO Ultraviolet Continuous	250mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652180	AR-75x75-HO-Ultraviolet Strobe	NA	NA		1.49A	NA				Figure B	1	
NER-011904101	AR-100x100-HO, Red Continuous	233mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652226	AR-100x100-HO, Red Strobe	NA	NA		8.40A	NA				Figure B	1	
NER-011904201	AR-100x100-HO, White Continuous	420mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652228	AR-100x100-HO, White Strobe	NA	NA		8.62A	7.84A				Figure B	3	
NER-011904301	AR-100x100-HO, Blue Continuous	420mA	NA		NA	NA		Figure A		Figure B	1	
NER-011652230	AR-100x100-HO, Blue Strobe	NA	NA		8.62A	7.84A				Figure B	3	
NER-011652232	AR-100x100-HO, Infrared Continuous	218mA	NA		NA	NA		Figure A		Figure B	1	
NER-011904406	AR-100x100-HO, Infrared Strobe	NA	NA		5.04A	NA				Figure B	1	
NER-011650005	AR-50x200-HO, Red Continuous	447mA	62mA		NA	NA	X	Figure A		Figure C	2	
NER-011650004	AR-50x200-HO, Red Strobe	NA	NA		8.80A	NA				Figure B	1	
NER-011650012	AR-50x200-HO, White Continuous	862mA	62mA		NA	NA	X	Figure A		Figure C	2	
NER-011650013	AR-50x200-HO, White Strobe	NA	NA		8.62A	8.62A				Figure B	3	

⚠ 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	AR Series Illuminators	NER-011XXXXXX
2	Power Supply DSP60 24VDC 2.5A DIN Mount	NER-011504100
3	NL-200 Current Controller Series	98-000152-0X



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.