

NERLITE DOME 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 Any One of the Indicated LCXXX (Legacy) or NL2XX Series Controllers)	LC50-350 (Legacy)	LC50-700 (Legacy)	LC50-1050 (Legacy)	LC50-1400 (Legacy)	LC50-2100 (Legacy)	LC100-350 (Legacy) (LC100 Used Only if Intensity Control is Desired)	LC100-700 (Legacy) (LC100 Used Only if Intensity Control is Desired)	LC100-1050 (Legacy) (LC100 Used Only if Intensity Control is Desired)	NL-2XX Optional (Used only if Intensity And/Or Ethernet Control is Desired)		NL-2XX Required	
NER-011600403	D-150 Red Continuous	80mA	NA		Figure A												Figure B	1
NER-011600402	D-150 Red Strobe	NA	1.60A														Figure B	1
NER-011600411	D-150 White Continuous	160mA	NA		Figure A												Figure B	1
NER-011600412	D-150 White Strobe	NA	3.20A														Figure B	1
NER-011600421	D-150 Blue Continuous	160mA	NA		Figure A												Figure B	1

Hardware Required

Item	Description	Part Number
1	Dome Series Illuminators	NER-0116004XX
2	Power Supply DSP60 24VDC 2.5A DIN Mount	NER-011504100
3	NL-200 Series Lighting Controller	98-000152-0X

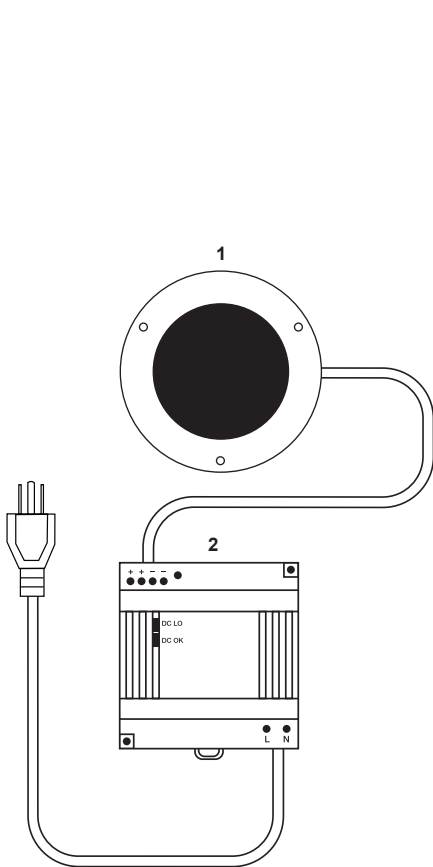


Figure A
Dome Light Series Illuminator
with power supply

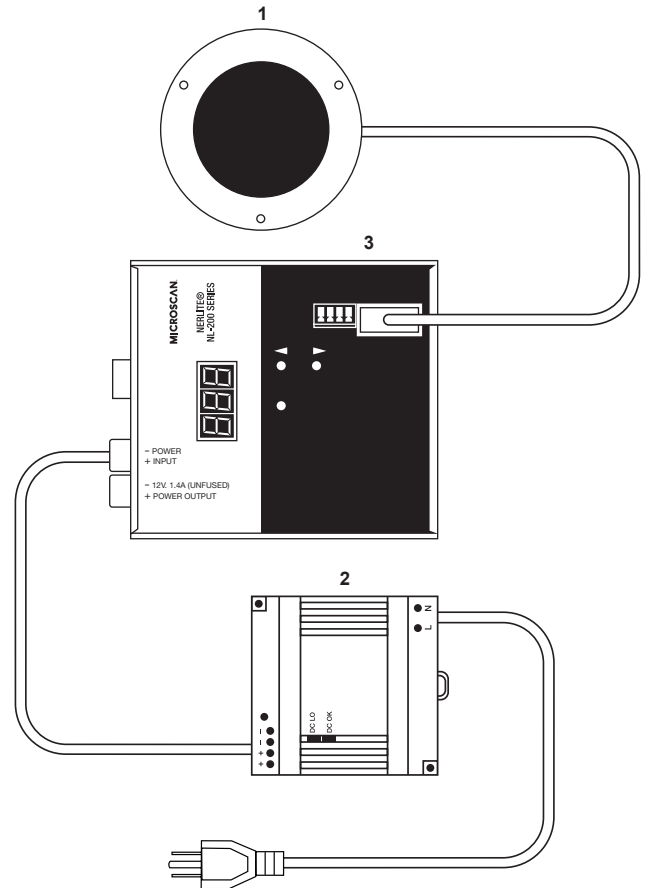


Figure B
Dome Light Series Illuminator
with NL-200 Controller and power supply

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

General Notes:

1. Those lights that do not require a controller require 24VDC +/- 1%.
2. The LC50 and LC100 series controllers require 24 to 40VDC.
3. The NL-2XX series controllers require 24 to 48VDC.
4. 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.
5. 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.
6. All models with separate fan circuits must have 24VDC connected to the fan circuit at all times when the light is operating.
7. 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.
8. ATTENTION! When programing an NL-2XX series controller for use in strobe mode, you must set the current rating to 10% of the current printed on the configuration label on the light. The NL-2XX Series Controller allows the operator to set the output to 1000% of the rated current in strobe mode. By programming the initial current rating at 10% of the light's rated current, full intensity is achieved and the controller is prevented from exceeding the light's rated current. Setting the current rating at a value greater than 10% of the current printed on the configuration label on the light may result in damage to the light.

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 two leads labeled "V+1" & "V+2" to the same positive(+) output terminal of the power supply or controller. Connect the two leads labeled "GND1" & "GND2" to the same negative(-) output terminal of the power supply or 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.