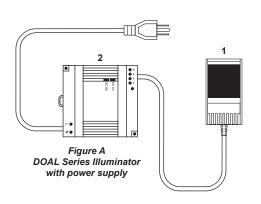
NERLITE DOAL SERIES ILLUMINATORS



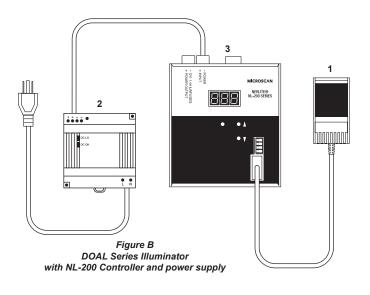
CONFIGURATION GUIDE

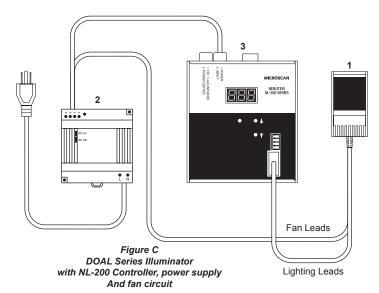
| | I | 1 | | | | | | | | | C0 | ntinuous | | | | | | Strobe | |
|----------------|--------------------------------|------------|------------|-----------------------|-----------------------|---------------|---|---|----------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|---|------------------------|---|---------------------|--|
| | | Continuo | io Current | Ctrobo | Current | | | | | | | peration | | | | | | Operation | |
| | | Continuot | us Current | Strope | Current | | | 1 | | | , <u> </u> | perauon | | | 1 | 1 | | Operation | |
| | | | | | | | No Controller Required (Can be | Controller Required (Select Any One of the Indicated LCXXX | | | | | | Only if | LC100-700 (Legacy) (LC100 Used Only If | Only If | NL-2XX Optional (Used only if Intensity And/Or Ethernet | | Connection Notes Reference Number (See the Connection Notes on |
| l | | | | | | _ | Connected | | | | | | | Intensity | Intensity | Intensity | | | |
| Part Number | Description | Lighting | Fan | Lighting Channel 1 | Lighting Channel 2 | Fan Cooled | Directly to 24VDC) | NL2XX Series Controllers | (Legacy) | LC50-700 (Legacy) | LC50-1050 (Legacy) | LC50-1400 (Legacy) | LC50-2100 (Legacy) | Control is Desired) | Control is Desired) | Control is Desired) | Control Is Desired) | NL-2XX Required) | back of page) |
| NER-011201305 | DOAL-25 Red Continuous | 40mA | NA NA | NA NA | NA NA | Cooled | Figure A | Controllers | (Legacy) | (Legacy) | (Legacy) | (Legacy) | (Legacy) | Desireu) | Desireu) | Desireu) | Figure B | Requireu) | 1 1 |
| NER-011201314 | DOAL-25 Red Strobe | NA. | NA NA | 0.80A pk. | NA. | | riguien | | | | | | | | | | 1 igule b | Figure B | 1 |
| NER-011201313 | DOAL-25 White Continuous | 64mA | NA NA | NA | NA. | | Figure A | | | | | | | | | | Figure B | 1 igule b | 1 |
| NER-011200814 | DOAL-50 V2 Red Continuous | 200mA | NA NA | NA NA | NA. | | Figure A | | | | | | | | | | Figure B | | 1 |
| NER-011200812 | DOAL-50 V2 Red Strobe | NA | NA | 4.00A pk. | NA. | | 1.9= | | | | | | | | | | 1.90.02 | Figure B | 1 |
| NER-011200824 | DOAL-50 V2 White Continuous | 200mA | NA | NA | NA. | | Figure A | | | | | | | | | | Figure B | g | 1 |
| NER-011200822 | DOAL-50 V2 White Strobe | NA | NA | 4.00A pk. | NA | | | | | | | | | | | | - U | Figure B | 1 |
| NER-011200834 | DOAL-50 V2 Blue Continuous | 200mA | NA | NA | NA | | Figure A | | | | | | | | | | Figure B | | 1 |
| NER-011200832 | DOAL-50 V2 Blue Strobe | NA | NA | 4.00A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011200892 | DOAL-50 V2 Infrared Continuous | 100mA | NA | NA | NA | | Figure A | | | | | | | | | | Figure B | | 1 |
| NER-011200897 | DOAL-50 V2 Infrared Strobe | NA | NA | 2.10A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011200502 | DOAL-75 Red Continuous | 240mA | 62mA | NA | NA | Х | Figure A | | | | | | | | | | Figure C | | 2 |
| NER-011200501 | DOAL-75 Red Strobe | NA | NA | 4.80A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011204902 | DOAL-75 White Continuous | 480mA | 62mA | NA | NA | Х | Figure A | | | | | | | | | | Figure C | | 2 |
| NER-011204901 | DOAL-75 White Strobe | NA | NA | 9.41A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011205720 | DOAL-75 Blue Continuous | 480mA | 62mA | NA | NA | Х | Figure A | | | | | | | | | | Figure C | | 2 |
| NER-011205721 | DOAL-75 Blue Strobe | NA | NA | 9.41A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011200506 | DOAL-75 Infrared Continuous | 240mA | 62mA | NA | NA | Х | Figure A | | | | | | | | | | Figure C | | 2 |
| NER-011200507 | DOAL-75 Infrared Strobe | NA | NA | 5.04A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011200602 | DOAL-100 Red Continuous | 427mA | 62mA | NA | NA | Х | Figure A | | | | | | | | | | Figure C | | 2 |
| NER-011200601 | DOAL-100 Red Strobe | NA | NA | 8.40A pk. | NA | | | | | | | | | | | | | Figure B | 1 |
| NER-011204601 | DOAL-100 White Continuous | 823mA | 62mA | NA | NA . | Х | Figure A | | | | | | | | | | Figure C | | 2 |
| NER-011204600 | DOAL-100 White Strobe | NA | NA | 8.62A pk. | 7.84A pk. | | | | | | | | | | | | | Figure B | 3 |
| NER-011204610 | DOAL-100 Blue Continuous | 823mA | 62mA | NA . | NA | Х | Figure A | | | | | | | | | | Figure C | F: 0 | 2 |
| NER-011204611 | DOAL 400 Informed Continuous | NA 4404 | NA co A | 8.62A pk. | 7.84A pk. | | Figure 1 | | | | | | | | | | Figure C | Figure B | 3 |
| NER-011200603 | DOAL 400 Infrared Continuous | 418mA | 62mA | NA 0.004 -II | NA NA | Х | Figure A | | | | | - | | | | | Figure C | Firm D | 2 |
| NER-011200605 | DOAL-100 Infrared Strobe | NA | NA | 8.82A pk. | NA | | | | | | | | | | | | | Figure B | 1 |



Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | DOAL Series Illuminators | NER-01120XXXX |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Series Lighting Controller | 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 |

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:

- 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.