HI-BRITE SERIES ILLUMINATORS

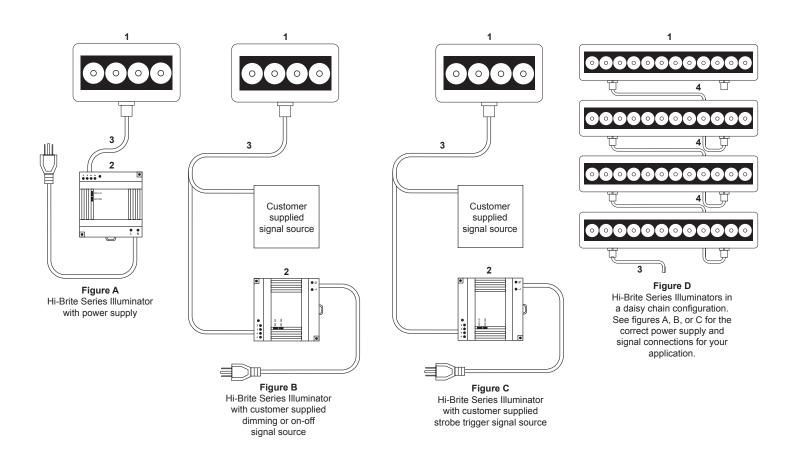


CONFIGURATION GUIDE

			Continuous Mode	Continuous Mode With Dimming Or On-Off Control	High Output Strobe Mode	Daisy Chain, All Modes
PART NUMBER	DESCRIPTION	Current Draw @ 24VDC (typ.)	No Controller Required (Can Be Connected Directly To 24VDC)			
NER-011660100G	Hi-Brite 45 Red 10 Degree	75mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660101G	Hi-Brite 45 Red 50 Degree	75mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660110G	Hi-Brite 45 White 10 Degree	75mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660111G	Hi-Brite 45 White 50 Degree	75mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660200G	Hi-Brite 100 Red 10 Degree	275mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660201G	Hi-Brite 100 Red 50 Degree	275mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660210G	Hi-Brite 100 White 10 Degree	275mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660211G	Hi-Brite 100 White 50 Degree	275mA	Figure A	Figure B	Figure C	Not Applicable
NER-011660300G	Hi-Brite 300 Red 10 Degree	750mA	Figure A	Figure B	Figure C	Figure D
NER-011660301G	Hi-Brite 300 Red 50 Degree	750mA	Figure A	Figure B	Figure C	Figure D
NER-011660310G	Hi-Brite 300 White 10 Degree	750mA	Figure A	Figure B	Figure C	Figure D
NER-011660311G	Hi-Brite 300 White 50 Degree	750mA	Figure A	Figure B	Figure C	Figure D

Hardware Required

Item	Description	Part Number
1	Hi-Brite Series Lights	NER-011660XXXG
2	Power Supply DSP100 24VDC 4.2A DIN Mount	97-000006-01
2	Power Supply DSP60 24VDC 2.5A DIN Mount	NER-011504100
3	Cable, 5P M12 Female To Flying Leads, 3M	61-000186-01
3	Cable, 5P M12 Female To Flying Leads, 5M	61-000187-01
4	Cable, 5P M12 Male To 5P M12 Female, 1M	61-000184-01
4	Cable, 5P M12 Male To 5P M12 Female, 3M	61-000185-01



Accessories

Description	Part Number	Application
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

Connections:

Input Connector (M12 Male, 5 Circuit, A-Code)	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Backshell
Continuous Mode (Figure A):	+20.2-28.8VDC	DC GND	DC GND	+20.2-28.8VDC	No Connection	Shield
Continuous Mode With Dimming (Figure B):	+20.2-28.8VDC	DC GND	DC GND & DIM (-)	+20.2-28.8VDC	Dim (+)	Shield
Continuous Mode With On-Off Control (Figure B):	+20.2-28.8VDC	DC GND	DC GND & DIM (-)	+20.2-28.8VDC	Dim (+)	Shield
High Output Strobe Mode (Figure C):	+20.2-28.8VDC	TRIG (-)	DC GND	TRIG (+)	No Connection	Shield

Daisy Chain, All Modes, Hi-Brite 300 Only (Figure D):

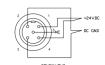
Note: The Output (Daisy Chain) Connector (M12 Female, 5 Circuit, A-Code) has an identical pin out to the Input Connector. The Output (Daisy Chain) Connector passes through any signal applied to the Input Connector. **Do not attempt to connect more than a total of four lights in a daisy chain configuration.** The 24VDC power supply's maximum current rating must be greater than or equal to the combined total current draw of all lights connected in the daisy chain.

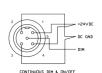
SIGNALS 1 +24VDC 2 TRIG -3 DC GND 4 TRIG + 5 DIM

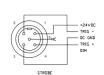




*APPLIES TO UNITS EQUIPPED WITH DAISY CHAIN, MULTIPLE LIGHT OPTION.







Control Signals

DIM (Continuous Mode With PWM Dimming):

0VDC (LEDs off) to 3.1-3.5VDC (LEDs on) pulse width modulated (PWM) signal , <1mA, Modulation Frequency 2KHz +/- 100Hz

Note: When using Continuous Mode With Dimming, the LED duty cycle will equal the duty cycle of the dimming signal.

DIM (Continuous Mode With On-Off Control): 0VDC (LEDs off), 3.1-3.5VDC (LEDs on), (<1mA)

TRIG (High Output Strobe Mode):

optoisolated, 0VDC (LEDs off) to 3.1-28.8VDC (LEDs on), 10mA max, 20 µs min Trigger pulse width. Note: High Output Strobe internally limits LED frequency and pulse width to a maximum of 90Hz and 1mS respectively. Light output pulse will follow Trigger pulse width from 20 µs to 1ms.

Cable Specifications:

Wire colors for flying lead cables:

Pin 1 = Brown

Pin 2 = White

Pin 3 = Blue

Pin 4 = Black Pin 5 = Gray

Connector Nut = Shield

Note: Non-Microscan cables may use different wire colors. It is the customer's responsibility to make sure the light is connected correctly per the pin numbers in the table above.