NERLITE® MAX

Available In Two Colors, Three Sizes

M12 Connector

IP67 Enclosure

Integrated Large Area LED Lighting

Microscan's Smart Series NERLITE products feature built-in controllers for a complete and easily integrated solution.

MAX illuminators provide a high intensity output over a large area. Featuring IP67 industrial sealing and the brightest LEDs in their class, the compact lights are an ideal solution for any rugged automation environment. Versatile 10° spot and 50° flood lens options allow them to be used at both near and far distances to accommodate a variety of applications.
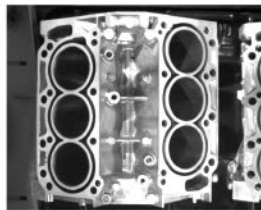
MAX: At a Glance

- *Smart Series: Built-in controller with adjustable intensity continuous mode and high output strobe mode*

- *High intensity output with state of the art LED technology*

- *Integrated Pulse Width Modulation (PWM) feature for dimming and on-off control*

- *Select models can be easily daisy chained together (MAX 300)*

- *IP67 enclosure with M12 connectors*

Camera

MAX Illuminator

Object

Illuminated Area

Illumination Example:

Object　　　　Resulting Image

Large engine block: Provides good contrast over large areas to perform product inspection.

Application Examples
- Large surface inspection
- Package sorting inspection
- Traffic monitoring
- Food processing and packaging
- Automotive/aerospace assembly

*For more information on this product, visit* **www.microscan.com.**

MICROSCAN®

MAX 45

DESCRIPTION	LENS	nm/K	CONT. OUTPUT (lumens)	STROBE OUTPUT (lumens)
MAX 45, Red	10°	625 nm	49	165
MAX 45, Red	50°	625 nm	49	165
MAX 45, White	10°	5000 K – 8300 K	151	412
MAX 45, White	50°	5000 K – 8300 K	151	412

Active Area: 0.8" (20 mm) x 0.8" (20 mm) **Current Draw at 24 VDC (typ.):** 75 mA
Weight: 5 oz. (144 g)
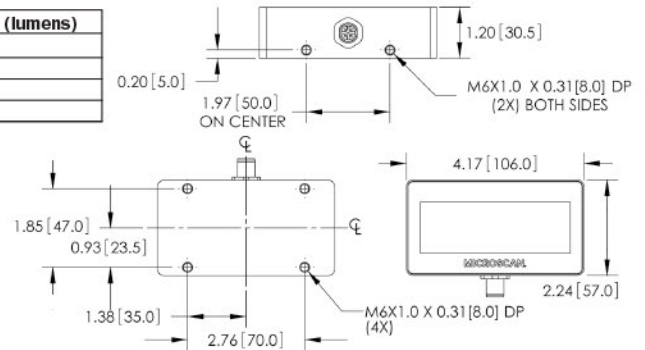**Dimensions:** H 2.24" (57 mm) x W 1.77" (45 mm) x D 1.20" (30.5 mm)
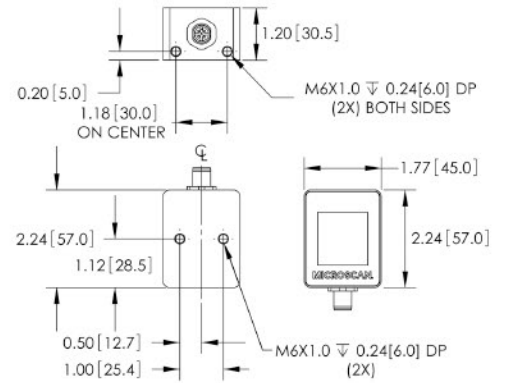
MAX 100

DESCRIPTION	LENS	nm/K	CONT. OUTPUT (lumens)	STROBE OUTPUT (lumens)
MAX 100, Red	10°	625 nm	195	661
MAX 100, Red	50°	625 nm	195	661
MAX 100, White	10°	5000 K – 8300 K	604	1648
MAX 100, White	50°	5000 K – 8300 K	604	1648

Active Area: 0.8" (20 mm) x 3.6" (92 mm) **Current Draw at 24 VDC (typ.):** 275 mA
Weight: 12 oz. (353 g)
**Dimensions:** H 2.24" (57 mm) x W 4.17" (106 mm) x D 1.20" (30.5 mm)

MAX 300

DESCRIPTION	LENS	nm/K	CONT. OUTPUT (lumens)	STROBE OUTPUT (lumens)
MAX 300, Red	10°	625 nm	584	1982
MAX 300, Red	50°	625 nm	584	1982
MAX 300, White	10°	5000 K – 8300 K	1813	4944
MAX 300, White	50°	5000 K – 8300 K	1813	4944

Active Area: 0.8" (20 mm) x 11.2" (284 mm) **Current Draw at 24 VDC (typ.):** 750 mA
Weight: 36 oz. (1007 g)
Dimensions: H 2.24" (57 mm) x W 11.81" (300 mm) x D 1.20" (30.5 mm)
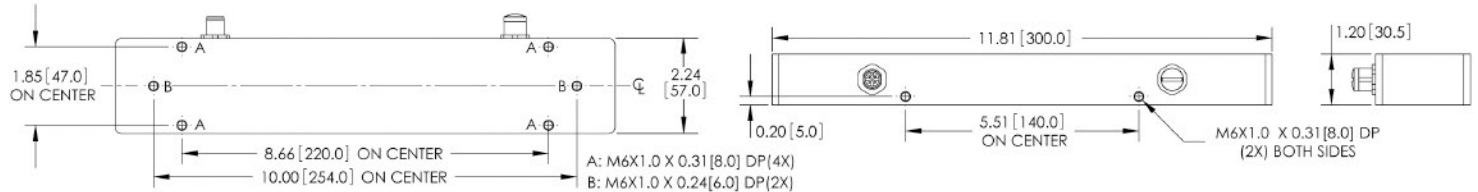
ENVIRONMENTAL
Enclosure: Black anodized aluminum, IP67 rated; **Humidity:** up to 95% (non-condensing)
Operating Temperature: 0° to 50° C (32° to 122° F); **Storage Temperature:** 0° to 50° C (32° to 122° F)

LIGHTING PARAMETERS
Active Area Defined: Area of light output from the illuminator

LIGHT SOURCE
Type: High output LEDs
Light Output: Lumens
Expected Life: 50,000 hours
Eye Safety: EN 60825-1: Class 2

CONNECTOR
Input (all models): M12 5-pin plug, A-code
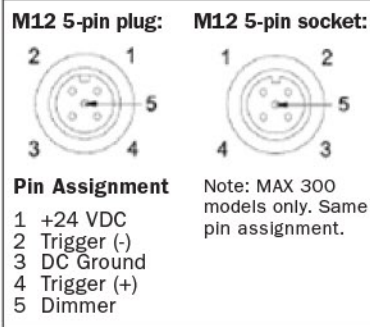**Output (MAX 300 models only):** M12 5-pin socket, A-code

ELECTRICAL
Power: 20.2–28.8 VDC
Continous Operation: No additional signals required
Continous Operation with Dimming: 0 VDC (LEDs off) to 3.1–3.5 VDC (LEDs on) PWM signal. < 1 mA, modulation frequency 2 KHz +/- 100 Hz. Note: LED duty cycle will equal duty cycle of dimming signal when using this mode.
Continous Operation with On/Off Control: 0 VDC (LEDs off) to 3.1–3.5 VDC (LEDs on), < 1 mA
High Output Strobe Operation: Optoisolated. 0 VDC (LEDs off) to 3.1–28.8 VDC (LEDs on). 10 mA max, 5 μs min to 10 mS max pulse width. Note: High Output Strobe internally limits LED frequency and pulse width to maximum of 90 Hz and 1 mS respectively.

M12 5-pin plug: | **M12 5-pin socket:**

Pin Assignment

1. +24 VDC
2. Trigger (-)
3. DC Ground
4. Trigger (+)
5. Dimmer

Note: MAX 300 models only. Same pin assignment.

QMS CERTIFICATION
www.microscan.com/quality

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