MetaBright™

Washdown Ring Light

PRODUCT DATA SHEET



MB-RL205

The Metaphase Washdown Ring Light offers high intensity, shadow-less illumination with five times the lifetime over fluorescents. Ring lights are essential for lighting specular or diffused surfaces. The MetaBrightTM Washdown Ring Light is built with high density LEDs that create bright illumination of surfaces for a wide spectrum of inspection purposes.

The Washdown Ring Light allows the use of one of the most popular lighting systems in a larger variety of environments and can be used where they may be exposed to water, moisture, and debris. With this watertight gasket design, high-pressure jets and washdowns are not a problem; great for food, drug, or outdoor applications. Three ¼-20 tapped holes provide the ability to mount the ring light directly on the camera. This light is available in both aluminum and stainless-steel housings.



FEATURES

- Homogenous light output that provides high intensity ON-axis illumination
- IP67 rated, rugged design with thermally potted LEDs
- LED thermal management for stable performance
- Ideal for solder joint and electronic component inspection
- Flicker free performance and instant start up with Metaphase analog driver technology
- An ideal light with many applications including, label Identification, part markings, surface inspection etc.
- Built-in Constant Current Driver with 0 10VDC intensity control, compatible with DDC-3 and ILD-35-24-L

WAVELENGTHS				
Order ID Description / nanometers				
W	White (6000K), Nominal			
R	Red / 630nm			
G	Green / 530nm			
В	Blue / 470nm			
IR850 (or IRN)	Infrared / 850nm			
IR880 (or IRL)	Infrared / 880nm			
IR940	Infrared / 940nm			
UV395 (or UVL)	Ultraviolet Long / 395nm			

GENERAL SPECIFICATIONS

Power Source: 24VDC ±5%

Cable (Standard): 10-foot cable with flying leads Housing: Black Anodized Aluminum

Ambient Temp: -20°C to 40°C

Lifetime Expectancy: 75,000 hours (except UV)

PRODUCT DATA SHEET



MB-RL205

	Washdown RING LIGHT							
MODEL*	Outside Diameter Inches (cm)	Inside Diameter Inches (cm)	Weight Ibs (grams)	Cable QTY	Cable Length	Cable Description	Maximum Input Current @24VDC	
MB-RL205-IP67	5.15 (13.09)	2.00 (5.09)	.84 (380)	_		24	.75A	
MB-RL205-67SS	5.15 (13.09)	2.00 (5.09)	~2.0 (900)	1	10ft	AWG 4 Wire	.75A	

^{*}Custom sizes and configurations available upon request

Wiring (4 conductors, flying leads)**				
Wire Color	Function			
RED	+24VDC			
WHITE	0-10VDC INTENSITY CONTROL			
BLACK	GROUND (24V RTN)			
GREEN	SIGNAL GROUND			

Wiring (4 conductors, without Intensity Control)			
Wire Color	Function		
RED	+24VDC		
WHITE	+24VDC		
BLACK	GROUND (24V RTN)		
GREEN	GROUND (24V RTN)		

M12 (5 position male)**				
Pin #	Function			
1	+24VDC			
2	0-10VDC Intensity Control			
3	GROUND (24V RTN)			
4	SIGNAL GROUND			
5 No Connection				
The M12 connector option is not recommended for lights rated more than 4 amps				

Wiring with ULC-2				
Wire Color	Function			
RED, WHITE (+)	LED INDUT			
BLACK, GREEN (-)	LED INPUT			
Terminated within a 2 position ULC-2 output connector (Phoenix Contact P/N: BCP-508-2)				

^{**}Note: The 0-10VDC Intensity Control input can accept voltages from 0-24VDC where the light will operate at full intensity in the 10-24VDC range. The light is proportionally dimmer for any Intensity Control voltage less than 10VDC and the light is OFF at approximately 0V or not connected (floating).

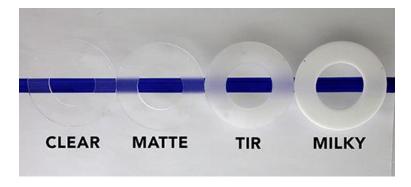
PRODUCT DATA SHEET



MB-RL205

MODEL NUMB	ER	R KEY						
MODEL	-	WAVELENGTH	-	VOLTAGE	1	LENS	-	OPTION
MB-RLXXX	-	XXX	-	xxx		XX	-	X-XXX
MB-RL205-IP67 MB-RL205-67SS		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (or IRN) (Infrared 850nm) IR880 (or IRL) (Infrared 880nm) IR940 (Infrared 940nm) UV395 (or UVL) (UV Long 395nm)		U (ULC-2 interface) KEY (Keyence Controller) ILD (In Line Dimmer) ILS (In Line Strobe)		CC (Clear Cover) D2 (Matte) D3 (TIR) D4 (Milky White)		T (M12 Connector) XXX (Custom code)

Lens/Diffuser Options



Contact Metaphase Technologies or your local representative for options such as custom diffusers, lenses, polarizers, IP-rated enclosures for harsh environments, higher intensity, custom wavelengths, higher uniformity, etc. Not all options are available for all lights.

PRODUCT DATA SHEET



MB-RL205

Wiring (4 conductors, flying leads)**				
Wire Color	Function			
RED	+24VDC			
WHITE	0-10VDC INTENSITY CONTROL			
BLACK	GROUND (24V RTN)			
GREEN	SIGNAL GROUND			

Wiring (4 conductors, without Intensity Control)			
Wire Color	Function		
RED	+24VDC		
WHITE	+24VDC		
BLACK	GROUND (24V RTN)		
GREEN	GROUND (24V RTN)		

M12 (5 position male)**				
Pin # Function				
1	+24VDC			
2	0-10VDC Intensity Control			
3	GROUND (24V RTN)			
4	SIGNAL GROUND			
5	No Connection			
The M12 connector option is not recommended for lights				

rated more than 4 amps

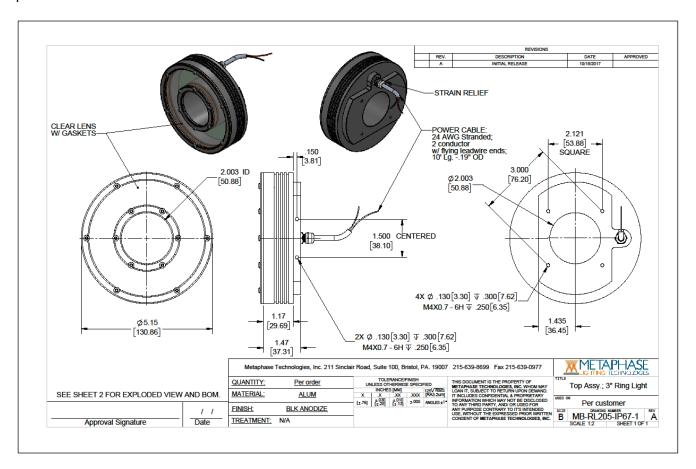
Wiring with ULC-2				
Wire Color	Function			
RED, WHITE (+)	LED INDUT			
BLACK, GREEN (-)	LED INPUT			
Terminated within a 2 position ULC-2 output connector (Phoenix Contact P/N: BCP-508-2)				

^{**}Note: The 0-10VDC Intensity Control input can accept voltages from 0-24VDC where the light will operate at full intensity in the 10-24VDC range. The light is proportionally dimmer for any Intensity Control voltage less than 10VDC and the light is OFF at approximately 0V or not connected (floating).



MB-RL205

Sample Model Number: MB-RL205-IP67-W-24-CC-Z



COMPLIANCE





IP67

CONTACT US

For more information please contact:



BOCK OPTRONICS INC.

14 Steinway Blvd., Unit 7 Toronto, Ontario M9W 6M6

Tel: (416) 674-2804 sales@bockoptronics.ca www.bockoptronics.ca