MetaBright[™] Adjustable Focus Mini-Spotlight

PRODUCT DATA SHEET



MB-AFSL105

This LED light casts a bright, crisp beam of light that's focus-adjustable from 4" to 7" away. Use this affordable light whenever you need a collimated light with a tightly focused beam. Without any additional focusing our Mini-spotlight is designed to cast a round pattern of light about the diameter of a nickel. Our Mini-spotlights feature a built in 24-volt driver, thermal management technology and a custom designed three lens relay with coated optics for perfect beam uniformity.



FEATURES

- Homogenous light output that provides high intensity illumination
- Tight, focused, adjustable beam of light
- LED thermal management for stable performance
- Custom bracket allows for precise positioning
- Flicker free performance and instant start up with Metaphase analog driver technology
- Economical...An ideal light for many applications
- Built-in Constant Current Driver with 0 10VDC intensity control
- Compatible with DDC-3 and ILD-35

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

GENERAL SPECIFICATIONS

Power Source: Cable (Standard): Housing: Ambient Temp: Lifetime Expectancy: 24VDC ±5% 10-foot cable with flying leads Black Anodized Aluminum -20°C to 40°C 75,000 hours (except UV) **PRODUCT DATA SHEET**



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	Adj	ustable Focus Mir	ni-Spotligl	ht			
MODEL	Dimensions Length x Diameter Inches (mm)	Lens Diameter Inches (mm)	Weight Ibs (grams)	Cable QTY	Cable Length	Cable Description	Maximum Input Current @24VDC
MB-AFSL105	2.41" x Ø1.28" (61.2mm x Ø32.4mm)	Ø.37" (Ø9.3mm)	.36 (160)	1	10ft	24 AWG	.15A
					1011	4 Wire	

Wiring (4 conductor with Intensity Control)**						
Wire Color	Function					
RED	+24VDC					
WHITE	0-10VDC INTENSITY CONTROL					
BLACK	GROUND (24V RTN)					
GREEN	SIGNAL GROUND					

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

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

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



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MODEL	SIZE	-	WAVELENGTH	-	DRIVER* (most common)	-	CABLE LENGTH	-	CONN.** (most common)
MB-AFSL	ххх	-	ххххх	-	xxxxxx	-	ххх	1	XXXX
MB-AFSL	105		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) IR940 (Infrared 940nm) UV395 (UV Long 395nm)		24Z 24NZ 24-ILSXXX 24-ILD U ¹		5M 10M		M12D ^{1 2}
					XXX=rate in μs Example: 250		Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		Select or leave blank for flying leads

Example 2: MB-AFSL105-R-24-ILD

²Default cable length for an M12D connector is 19 inches

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.

Link to *Driver Options Key / **Connector Options Key

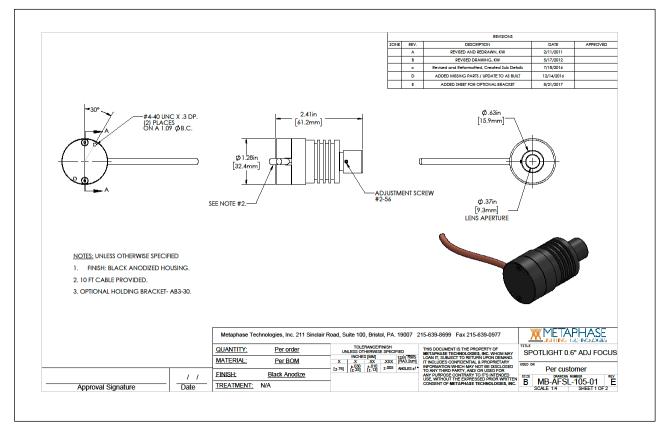
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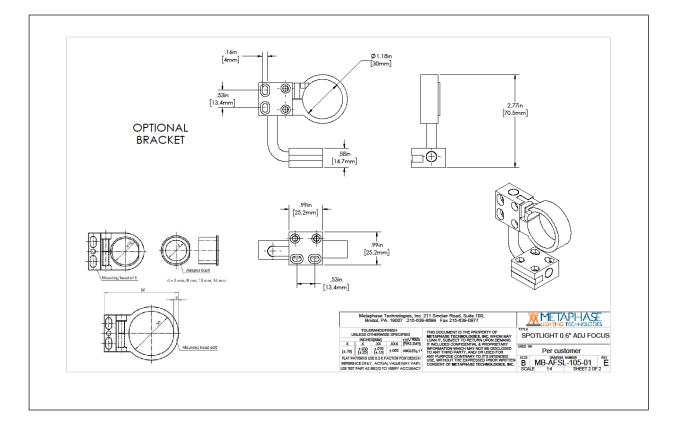
Sample Part Number: MB-AFSL105-W-24Z



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COMPLIANCE







CONTACT US

For more information please contact:

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