

# **Technical Information**

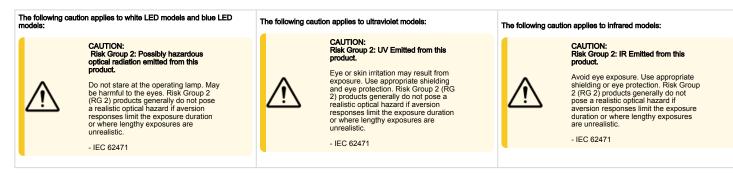


For complete technical information about this product, including installation instructions, application requirements and guidelines, technical specifications, dimensions, and accessories, please refer to the manual at www.bannerengineering.com. Scan the QR code or follow the link below to go to the product series web page, and search for the GS60 Guide Spotlight manual, p/n 238181, in the Downloads. Use of this document assumes familiarity with pertinent industry standards and practices. https://www.bannerengineering.com/qr/GS60



# Model Key

Housing	Color	Lens Angle	Control	Connection
GS60	w	L4		Q
60 mm diameter Guide Spotlight	W = White		Blank = Hi/Low/Off A = Adjustable PWM/Strobe and 1 V to 10 V dimming	Q = Integral 4-pin or 5-pin M12 male quick-disconnect connector <sup>(1)</sup>
	R = Red			
	G = Green			
	B = Blue	L4 = ± 4 degree lens		
	Y = Yellow			
	I = Infrared			
	UV395 = 395 nm Ultraviolet			



# Wiring

Pinout	Pin Number	Wire Color	High/Low/Off Models	1 V to 10 V Analog Dimming and Strobing/PWM Dimming Models
	Pin 1	Brown	12 V DC to 30 V DC	12 V DC to 30 V DC
	Pin 2	White	Not used	NPN PWM/Strobe Input: For maximum intensity, leave the white wire floating, or connect to 12 V DC to 30 V DC. Connecting to DC common causes the LEDs to shut off.
	Pin 3	Blue	DC common	DC common
	Pin 4	Black	Connect to 12 V DC to 30 V DC for 50% maximum intensity. For maximum intensity, leave the black wire floating or connect to common.	PNP PWM/Strobe Input: For maximum intensity, leave the black wire floating, or connect to DC common. Connecting to 12 V DC to 30 V DC causes the LEDs to shut off.
			Not present	1 V DC to 10 V DC Analog Dimming
	Pin 5	Gray		<b>NOTE:</b> Connect to 12 V DC to 30 V DC for maximum intensity, or apply 1 V to 10 V for analog dimming of 10% to 100% intensity.

# Specifications

Refer to the manual for complete information.

### Supply Voltage

12 V DC to 30 V DC

Mounting

30 × 1.5 mm thread base mount

### Construction

Black anodized aluminum housing Polycarbonate window Nickel-plated quick-disconnect connector

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

(1) Hi/Low/Off models have 4-pin quick-disconnect connectors. Adjustable models have 5-pin quick-disconnect connectors.

Black anodized aluminum mounting nut

#### Connections

Integral 4-pin or 5-pin M12 male quick-disconnect connector

Operating Temperature -40 °C to +50 °C (-40 °F to +122 °F)

Storage Temperature

–40 °C to +70 °C (–40 °F to +158 °F)

Environmental Rating IP66, IP67



**Required Overcurrent Protection** 



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table. Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced. For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	1.0	30	0.5

### Supply Current

Color	Max. Current Draw (A) at 12 V DC	Typical Current Draw (A)				
		12 V DC	24 V DC	30 V DC	50% Intensity at 24 V DC	
Daylight White	0.45	0.34	0.18	0.15	0.08	
Red	0.45	0.33	0.15	0.12	0.06	
Green	0.45	0.405	0.18	0.14	0.06	
Blue	0.45	0.41	0.18	0.14	0.065	
Yellow	0.45	0.36	0.18	0.145	0.07	
IR	0.45	0.185	0.09	0.07	0.045	
UV	0.45	0.06	0.032	0.028	0.022	

### **Key Accessories**

Refer to the manual for additional accessories and complete information.

### MQDC-406

SMBAMS30P

30 mm flat bracket with curved slot for versatile orientation

SMB30A 30 mm right-angle bracket with curved slot for versatile orientation

Straight 4-pin threaded M12 cordset—single ended

ACC-GS60 M48 Front Mount

M48X2 mounting knurl nut for the GS60

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