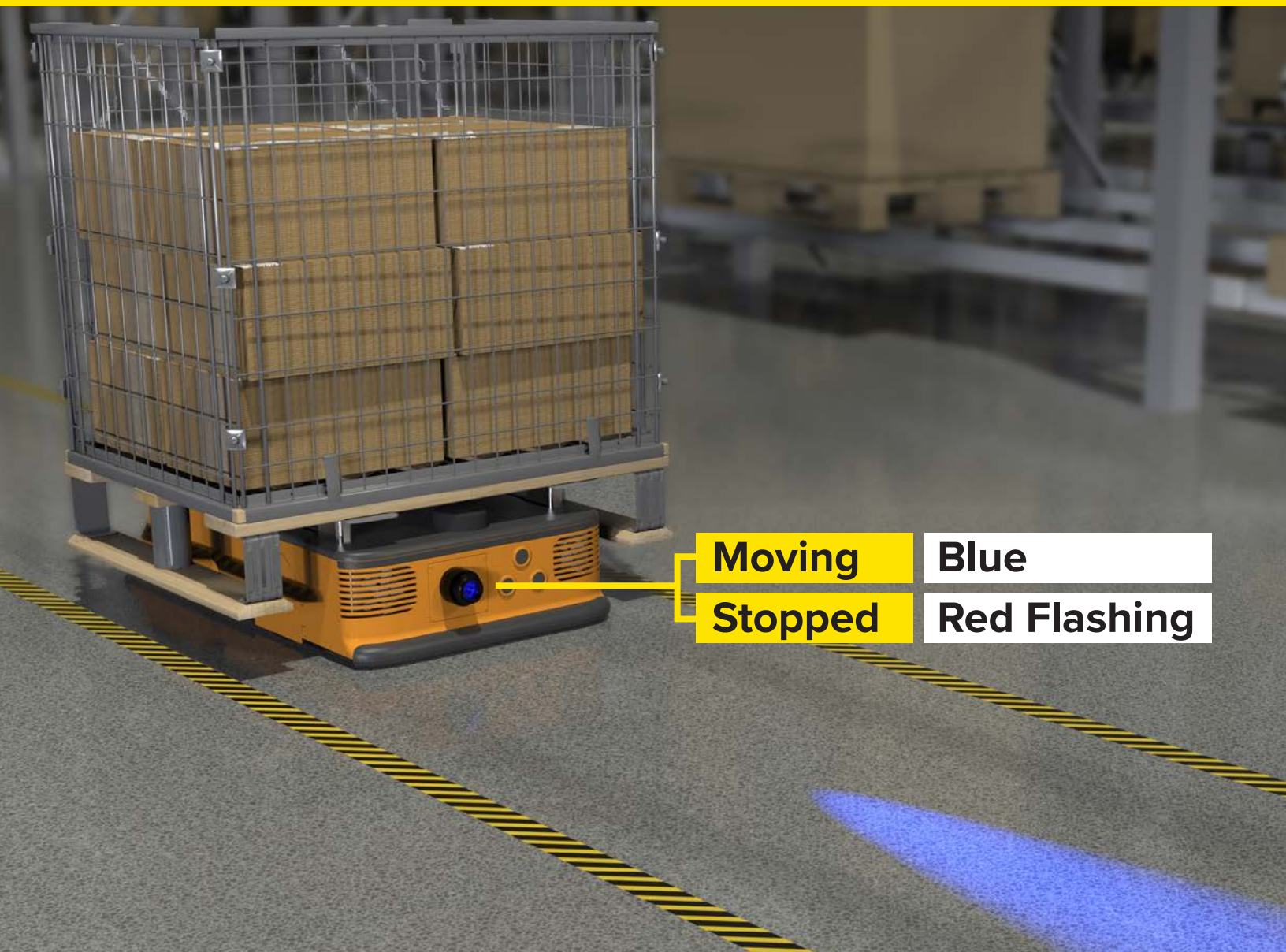


# GS60 Guide Spotlights



## Improve Visibility and Efficiency in Task and Vision Applications

- Reduce errors, improve productivity, and enhance operator interaction with increased visibility provided by the bright, focused spot
- Enhance worker comfort and safety by easily setting lighting levels to match the environment and application needs
- Reliably use in harsh environments with the long-lasting, impact resistant, durable anodized aluminum housing and polycarbonate window
- Seven standard colors out of the box with access to seven additional colors and three animations with free Pro Editor Software



GS60 Guide Spotlights

Pro Model

Color	Control	Model
Multicolor (Red, Yellow, Green, Blue, Cyan, Magenta, White)	Constant power plus three inputs	GS60PRGBWL9Q

Single Color Models

Color	Control	Models
Daylight White - 5000K	High/low/off	GS60WL4Q
Red		GS60RL4Q
Green		GS60GL4Q
Blue		GS60BL4Q
Yellow		GS60YL4Q
Infrared (IR)		GS60IL4Q
Ultraviolet (UV) - 395 nm		GS60UV395L8Q
Daylight White - 5000K	Adjustable PWM/strobe and 1 to 10 V dimming	GS60WL4AQ
Infrared (IR)		GS60IL4AQ
Ultraviolet (UV) - 395 nm		GS60UV395L8AQ

Specifications



ø 60 mm

77 mm

M48 x 2

M30 threaded base

**Supply Voltage**

12 to 30 V DC

**Construction**

Housing: Black anodized aluminium  
Window: Polycarbonate  
Connector: Nickel-plated M12 QD  
Mounting nut: Black anodized aluminium

**Operating Conditions**

–40 to +50 °C (–40 to +122 °F)


**Environmental Rating**

IP66, IP67


**Certifications**

CE, UL LISTED, UK CA


Accessories




**SMB30A**  
Right-angle bracket



**SMBAMS30P**  
Flat bracket with curved slot




**LC25T-AP1RGBQ**  
In-line touch switch\*




**WLS28-2PBQ**  
3-position in-line switch\*


\*For single color models only




**LC28PB2-3Q**  
3-rocker in-line switch\*




**SMBAMS30RA**  
Right-angle bracket with curved slot




**SMB30MM**  
Right-angle bracket with clearance for M6 hardware



**ACC-GS60**  
M48 x 2 front mounting knurl nut



**PRO-KIT**  
Required for PC configuration



**5-Pin M12**  
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)

**MQDC1-506**  
2 m (6.5')

**MQDC1-515**  
5 m (15')

**MQDC1-530**  
9 m (30')





Datasheet



For complete technical information about this product, including installation instructions, application requirements and guidelines, configuration, performance, technical specifications, dimensions, and/or accessories, go to <https://www.bannerengineering.com/qtr/GS60> and locate the product manual, p/n 243622, in the Downloads section. Use of this document assumes familiarity with pertinent industry standards and practices.



The following items may be needed in the appropriate quantity or length for the installation. See the Accessories section in the GS60 Pro Multicolor Guide Spotlight manual for options.

- MQDEC-5xx cordset
- SMB30A mounting bracket
- SMBAMS30P mounting bracket
- ACC-GS60 M48 front mount

Model Key

Housing	Color	Lens Angle	Control	Connection
GS60P	RGBW	L9		Q
60 mm diameter Pro-enabled Guide Spotlight	RGBW = Multicolor	9 = ± 9 degree lens	Blank = Constant power plus three inputs	Q = Integral 5-pin M12 male quick-disconnect connector



**CAUTION:**  
Risk Group 2: Possibly hazardous optical radiation emitted from this product.

Do not stare at the operating lamp. May be harmful to the eyes. Risk Group 2 (RG 2) products generally do not pose a realistic optical hazard if aversion responses limit the exposure duration or where lengthy exposures are unrealistic.

- IEC 62471

Wiring

Diagram	Pinout	Pin Number	Wire Color	Description
		Pin 1	Brown	12 V DC to 30 V DC
		Pin 2	White	Input 2: 12 V DC to 30 V DC
		Pin 3	Blue	DC common
		Pin 4	Black	Input 1: 12 V DC to 30 V DC
		Pin 5	Gray	Input 3: 12 V DC to 30 V DC

Default Color Definition

	Red	Yellow	Green	Cyan	Blue	Magenta	White
Input 1	X	X				X	X
Input 2		X	X	X			X
Input 3				X	X	X	X

An "X" denotes an active input. For example, when Input 1 and Input 3 are active, the spotlight is magenta.

Specifications

Refer to the manual for complete information.

Supply Voltage

12 V DC to 30 V DC

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Mounting

30 × 1.5 mm thread base mount

Connections

Integral 5-pin M12 male quick-disconnect connector

Supply Current

Typical Current			Maximum Current
12 V DC	24 V DC	30 V DC	A
0.415	0.2	0.165	0.5

Construction

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

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](http://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

Default Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates <sup>(1)</sup>		Lumen Output (Typical at 25 °C)
		X	Y	
Blue	450	0.1584	0.022	31.7
Green	520	0.1493	0.6898	188
Red	623	0.688	0.3043	140
Orange	597	0.5811	0.3812	155
Amber	587	0.5224	0.4228	161.1
Yellow	575	0.4435	0.4789	156.6
Lime Green	559	0.3582	0.5405	166.2
Spring Green	515	0.1499	0.6279	177.5
Cyan	495	0.1581	0.3757	158.6
Sky Blue	487	0.1554	0.2657	143
Violet	-	0.2358	0.1094	114.6
Magenta	-	0.404	0.2096	146.1
Rose	-	0.5462	0.2664	145
White	4000K	0.3792	0.3902	257.8

Banner Engineering Corp Limited Warranty

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For patent information, see [www.bannerengineering.com/patents](http://www.bannerengineering.com/patents).

<sup>(1)</sup> Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.