

S Version Combination Strobe/Continuous

Product Highlights

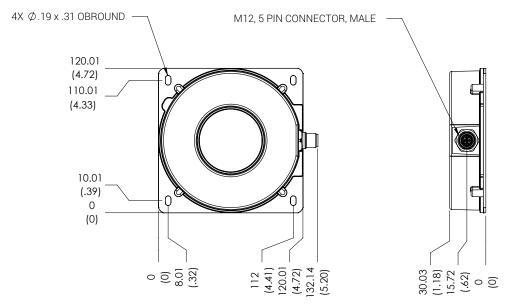
- Cost-effective, feature-rich design
- · Robust, sealed IP67 enclosure
- On-board smart driver seamless strobe or continuous
- Adaptive Overdrive optimized power under all strobe conditions
- Adaptive Power factors in your light heat sink options and external temperature options to maximize performance and lifespan



General Specifications

Electrical Specifications	Color	Current		
Driver internal to light source inputs are tolerant to 30VDC	WHI, 455, 470, 505, 530, 590 ,625, 660, 730, 850, 940	~0.54A Current draw will depend on what the EuroBrite** is trained to do. If it is attached to a heat sink; draw will be slightly higher. No heat sinking; draw will be slightly lower.		
Input Voltage Range	24V nom. (min 22/max 28)			
Maximum Input Current	0.42-0.49A			
Strobe/On-Off Control	up to 5X overdrive, active high			
Analog Intensity Control	Analog 0.7-10V; 0.7V=10% 10V=100%			
Trigger-to-Pulse Latency	10µsec			
Normal Operating Temperature	0 - 60°C			
Weight (g)	172.4g (6.1oz)			
Standard Cable Information	No cable included; see part number LC2-M12-5-FX or use standard coded 5-pin M12.			
Photobiological Risk Factor IEC 62471	Exempt: 850, 940 Group 1 (Low-Risk): 455, 470, 505, 530, 590, 625, 660, 730, WHI			
Compliance	CE ROHS IEC 62471			
IP Rating	IP67			
Lumen Maintenance	L70 = 50,000 hours			

Mechanical Specifications



DIMENSIONS ARE IN MILLIMETERS (INCHES)

Part Number Key

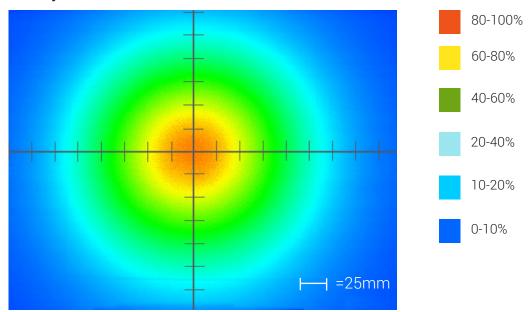
Model	_	Control	Model Indicator	Lens Option ¹	_	Spectral Wavelength
RL	_	Χ	XXXXXX	X	_	XXX
RL		S (strobe)	052120	M (medium spread) W (wide spread)		(royal blue) 455 (blue) 470 (cyan) 505 (green) 530 (amber) 590 (red orange) 625 (red) 660 (IR) 730 (IR) 850 (IR) 940 (White) WHI
	052120W 052120W					¹ Beam angle (FWHM): M (standard) = 21° W = 32°

Stock Product: shipped within 3 days

RL-S052120M-470 RL-S052120M-625 RL-S052120M-WHI Build to Order. shipped within 2 weeks

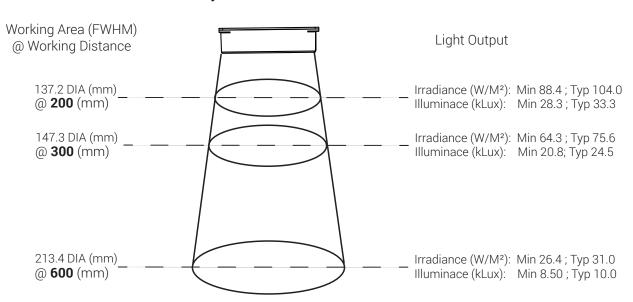
Optical Performance

Intensity Distribution



Optical measurement taken using RL-S052120M-WHI @ 300 mm

Area of Illuminance & Intensity



Operation & Wiring

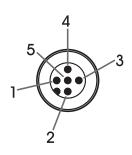
Modes of Operation

Continuous	Strobe	Thermal Foldback	Factory Reset
To enable output: Tie Trigger+ (black) HIGH to >0.5V. The light remains ON as long as Trigger+ is high Analog dimming is available: pin 5, gray	EuroBrite™ S-version uses Adaptive Overdrive™ to produce overdrive pulses while the trigger is HIGH. Overdrive period occurs from 0-5msec; light output can be increased by as much as 5X. Overdriving does not occur when pulses exceed 5msec. Analog dimming is available: pin 5, gray	To engage Thermal Foldback: Before turning the light on, tie pin 2 (white) to pin 3 (GND, blue). Onboard thermistor is sampled for 5 minutes. Light intensity will automaticaly adjust based on the case tempurature during the training period. The beginning of training is signified by a series of rapid flashes. While training, the light will blink every two seconds. A few slower blinks signal the end of the training period	To engage Factory Reset: Before turning the light on, tie pin2 (white) to pin 3 (blue). For factory reset to occur, the light must be trained for thermal foldback first. Light will appear dim for 3-5 seconds then brightness will be set to factory default. After factory reset is complete disconnect white wire from blue wire for normal operation (before turning light back on). Tying pin 2 (white) to pin 3 (blue) will alternate between factory reset and thermal foldback modes.

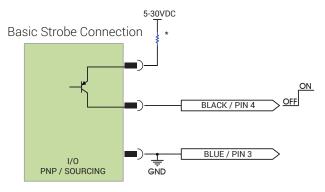
Standard Wiring Information

Pin	Function	Wire Color	Туре
1	24VDC	Brown	Power
2	Thermal Foldback	White	Input
3	GND	Blue	Power
4	Trigger +	Black	Input
5	Analog	Gray	Input

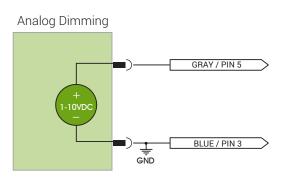
Male 5-Position



Wiring Diagrams



*External resistors may not be needed Check documentation on I/O for recommendations and voltage limits



Analog dimming works in both strobe and continuous

Warranty Information

Every Advanced illumination, Inc. (Ai) product is thoroughly inspected and tested before leaving the factory.

Products are warranted to be free of defects in workmanship and materials for a period of two years from the

original date of purchase. Should a defect develop during this period, please contact Ai Customer Service or your

Ai distributor for a Return Merchandise Authorization (RMA), and return the complete product, freight prepaid, to Ai.

If a defect is found, Ai will - at our discretion - repair or replace the product without charge. Ai claims no liability for

any implied warranties, including "merchantability" and "fitness for a specific purpose."

Electromagnetic Compatibility

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility

(EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable

protection against harmful interference only when the product is operated in its intended industrial electromagnetic

environment. To minimize the potential for electromagnetic interference or unacceptable performance degradation,

install and use this product in strict accordance with the instructions in the product documentation.

Customer Service

For information on existing orders, or to make an order adjustment, contact us Monday through Friday 8:00 am to

5:00 pm, EST or send an email to orders@advill.com.

Company Information

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