

EuroBrite™ Ring RL-S052120

S Version Combination Strobe/Continuous

Product Highlights

- Cost-effective, feature-rich design
- Robust, sealed IP67 enclosure available
- On-board smart driver seamless strobe or continuous
- Adaptive OverDrive optimized power under all strobe conditions
- Thermal Foldback optimal heat damage protection

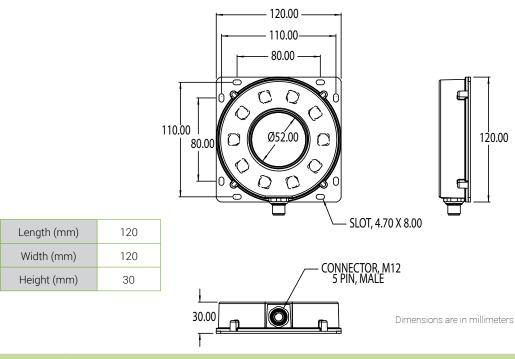


General Specifications

Electrical Specifications	Color	Current		
Driver internal to light source inputs are tolerant to 30VDC	470, WHI	650 mA Max		
	625	400 mA Max		
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)	173g			
Standard Cable Information	80" (2 meters) long - jacket is 105°C rated PUC jacket, foil shield with drain.			
Photobiological Risk Factor IEC 62471	Group 1 (Low-Risk): No photobiological hazard under normal behavioral limitations for blue, green, red (625), and white.			
Compliance	CE ROHS IEC 62471			
IP Rating				
Maximum Case Temperature	55°C			
Lumen Maintenance	L70 = 50,000 hours			

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Mechanical Specifications



Part Number Key

Model	ı	Control	Model Indicator	Lens Type	_	Spectral Wavelength
RL	_	X	XXXXXX	X	_	XXX
RL		S (strobe)	052120	M (medium spread) W (wide spread)		470 (blue) 625 (red) WHI (white)
		20W-652 20M-WHI				

Stock Product: shipped next day

- RL-S052120M-470
- RL-S052120M-625
- ▶ RL-S052120M-WHI

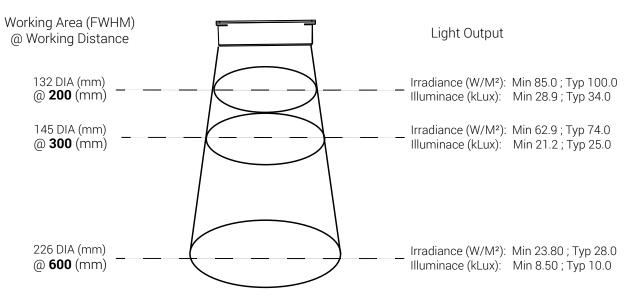
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Optical Performance

Intensity Distribution 80-100% 60-80% 40-60% 20-40% 10-20%

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

Area of Illuminance & Intensity



Operation & Wiring

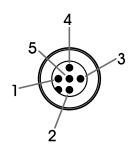
Modes of Operation

Continuous	Strobe	Thermal Foldback	
To enable output: Tie Trigger+ (black) HIGH to >0.5V.	EuroBrite™ S-version uses Adaptive Overdrive™ to produce overdrive pulses while the trigger is HIGH.	To engage Thermal Foldback:	
The light remains ON as long as Trigger+ is HIGH.	Overdrive period occurs from 0-5msec; light output can be increased by as much as 5X.	Before turning the light on, tie pin 2 (white) to pi 3 (GND, blue).	
Analog dimming is available: pin 5, gray	Overdriving does not occur when pulses exceed 5msec.	Onboard thermistor is sampled for 5 minutes. Light intensity will automatically adjust based on the Tcase during the training period.	
	Analog dimming is available: pin 5, gray	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.	

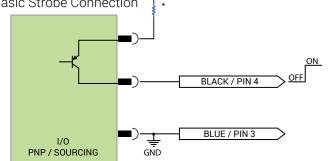
Standard Wiring Information

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



Basic Strobe Connection ** Wiring Diagrams



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

Analog Dimming GRAY / PIN 5 BLUE / PIN 3

Analog dimming works in both strobe and continuous

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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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