

Legacy Low Power Line Lights



Product Highlights

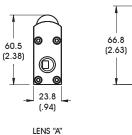
- · Suited for use with low intensity, low speed line scan applications
- Red, Green, Blue, White, UV and IR wavelengths available
- Range of Working Distances and Line Widths available
- LL163 Expandable in lengths of 1.5" up to 80"
- LL163 Derivatives: LL2912 (3"), LL3024 (6"), LL3148 (12")

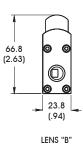


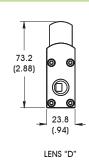
General Specifications

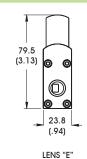
	Color	24v Current	All Other Controls	
Electrical Specifications	625, 880	.03 A per 1.5"	.014 A Max per 1.5"	
	395, 470, 520, WHI	.02 A per 1.5"	.009 A Max per 1.5"	
Normal Operating Temperature	0-60°C			
Weight (Kg)	Unavailable	Unavailable		
Standard Cable Information	Up to 2 meters (80") long - 105°C rated PVC jacket, foil shield with drain.			
Photobiological Risk Factor IEC 62471	Exempt Applicable Wavelengths: 880 Group 1 (Low-Risk) Applicable Wavelengths: 455, 520, 625, WHI Group 2 (Moderate Risk) Applicable Wavelengths: 395			
Compliance	CE ROHS IEC 62471			
IP Rating	IP50			
Maximum Case Temperature	55°C			
Lumen Maintenance	L70 = 50,000 hours			

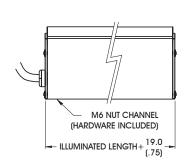
Mechanical Specifications











DIMENSIONS ARE IN MILLIMETERS (INCHES)

Part #	Length in mm (inches)		
LL163006	57	(2.25)	
LL2912 1	95	(3.75)	
LL163018	133	(5.25)	
LL3024 1	171	(6.75)	
LL163030	209	(8.25)	
LL163036	247	(9.75)	
LL163042	285	(11.25)	
LL3148 ¹	323	(12.75)	
LL163054	361	(14.25)	
LL163060	399	(15.75)	
Available in increases of Clade (1.5 in ab			

Part #	Length in	mm (inches)
LL163066	437	(17.25)
LL163072	475	(18.75)
LL163078	513	(20.25)
LL163084	551	(21.75)
LL163090	589	(23.25)
LL163096	627	(24.75)
LL163102	665	(26.25)
LL163108	703	(27.75)
LL163114	741	(29.25)
LL163120	779	(30.75)

Available in increments of 6 leds (1.5 inches) up to 318 leds (79.5 inches).

¹LL2912, LL3024, and LL3148 have unique product numbers.

Part Number Key

Model	Lens Type	Illuminated Length (# of LEDs)	_	Spectral Wavelength	Connector/ Control	_	Alternative Connector
LL163	X	XXX	_	XXX	XX	_	XXX
LL163	A B D E	6 LEDs = 38mm (1.5")		395 (UV) 470 (blue) 520 (green) 625 (red) 880 (infra-red) WHI (white)	C1 C2 C5 IC I3 I3S		M12 ¹
Ex: LL163A0	30-WHIIC			¹Availa	ble with IC, I3, I3S	and 24v	options only

Stock Product: shipped next day

LL163B102-625IC-M12

Build to Order. shipped in two weeks

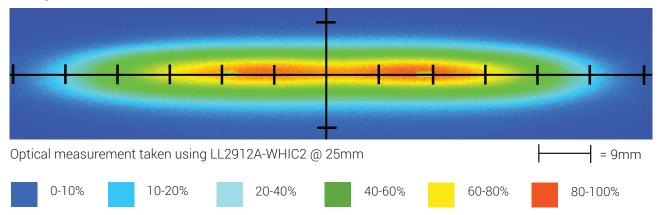
LL2912A-WHIC2 LL3024A-WHIC2

Connector | Control Options

C1 Connector	C2 Connector	C5 Connector	IC	13	I3S	24
For use with: DCS Series Controllers	For use with: Legacy Controllers (Not recommended for new applications)	For use with: Pulsar 320 Strobe Controller.	Continous in-line controller Powered with: 24V power supply	Combination strobe/continous in-line controller Powered with: 24V power supply	Default-OFF strobe/continous in-line controller Powered with: 24V power supply	Flying/tinned leads Powered with: 24V power supply

Optical Performance

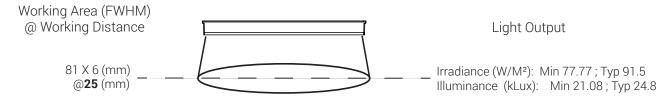
Intensity Distribution



Line Width @ Working DIstance

	Lens "A"	Lens "B"	Lens "D"	Lens "E"
Working Distance	25mm	50mm	75mm	125mm
Line Width	6mm	9.5mm	13mm	16mm

Area of Illuminance & Intensity



Operation and Wiring

ICS 2 (IC)

100 2 (10)				
Function	Wire Color			
+24 VDC	Brown			
GHI	White			
GND	Blue			
GLO	Black			
N/A	N/A			
	Function +24 VDC GHI GND GLO			

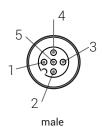
ICS 3 (I3 and I3S)

100 5 (15 and 155)				
Pin (M12)	Function	Wire Color		
1	+24 VDC	Brown		
2	Reserved	White		
3	GND	Blue		
4	PNP/Active High Trigger	Black		
5	0-10 VDC Analog Control	Gray		

24 Volt

Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	N/A	White
3	GND	Blue
4	N/A	Black

Optional M12 Pinout



male 5-position

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 ET or send an email to orders@advill.com.

Company Information

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