ALU19.01

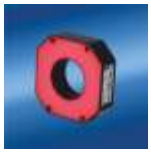
ALU SERIES

Ultra diffuse ringlights

Ringlights are used to illuminate objects from camera axis providing a ULTRA-DIFFUSE and uniform frontal light, ideal to obtain contrast and uniformity in order to inspect brightly or specular shining objects.

Eliminates brightness and shadows.

Technical specifications[1]

Lighting model	ALU0502A	ALU0704A	ALU1006A
			
Dimensions	55x55x20	75x75x22	100x100x28
Inner O	20	37	61
RWD (mm)	<115	<120	<190
Weight	85g	130g	260g
IP rating	IP40[2]	IP40[2]	IP40[2]
Mounting holes	(x3)M4 x 6	(x4)M4 x 6	(x4)M4 x 6 (x3)DIN913 M5@120º
Connection	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V
Power cable *(Not-included)*	VCB Series	VCB Series	VCB Series
Modifiers[3]	N/A	N/A	N/A
Accessories[4]			
iBlueDrive tech.	inline	inline	inline
iBlueDrive connection	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]
iBlueDrive power cable *(Not-included)*	VCC Series	VCC Series	VCC Series
iBlueDrive accessories[4]			

Instantaneous consumption[6] (max.)

*WT

Lighting model		ALU0502A	ALU0704A	ALU1006A	
TYPE C 24VDC	B	2.2W	3.4W	5.5W	-470C
	G	2.2W	3.4W	5.5W	-525C
	R	2.5W	3.8W	6.4W	-630C
	i	2.5W	3.8W	6.4W	-850C
	W	2.2W	3.4W	5.5W	-W00C
TYPE P		No 'Type P' standard LED lighting systems in this series			
TYPE S Dmax= 1/20 Ton max= 2ms	B	350mA/8.4W	530mA/13W	880mA/21W	-470S
	G	350mA/8.4W	530mA/13W	880mA/21W	-525S
	R	350mA/8.4W	530mA/13W	880mA/21W	-630S
	i	835mA/20W	1255mA/30W	2090mA/50W	-850S
	W	350mA/8.4W	530mA/13W	880mA/21W	-W00S
	RGB	N/A	600mA/14W channel	1000mA/24W channel	-RGBS
TYPE i[7] iBlue Drive	B	2.2W[10W/1.7W]	3.1W[15W/2.4W]	4.8W[24W/3.6W]	-470i
	G	3.4W[10W/2.4W]	4.8W[15W/3.4W]	7.7W[24W/5.3W]	-525i
	R	3.4W[10W/2.4W]	4.8W[15W/3.4W]	7.7W[24W/5.3W]	-630i
	i	6.2W[20W/3.4W]	9.1W[29W/4.8W]	15W[48W/7.7W]	-850i
	W	3.4W[10W/2.4W]	4.8W[15W/3.4W]	7.7W[24W/5.3W]	-W00i

N/A= Not available CUS = Custom

(1) Environmental specifications and iconography legend in additional annex Z1.4 and Z2 respectively.

(2) IP43 if the system is positioned so that the light falls vertically.

(3) Prior to manufacturing optional modifications in standard lighting systems. Please, consult the code before ordering (additional annex Z2.1).

(4) Accessories are not-included. More information in accessories section.

(5) iBlueDrive control input wiring specifications in additional annex Z1.2.

(6) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.

(7) Values of maximum instantaneous consumption of 'Type i' lighting systems in *Powered mode [Strobe mode / Continuous mode]*

*ORDER REFERENCE = Lighting model + WT / MODIFIERS

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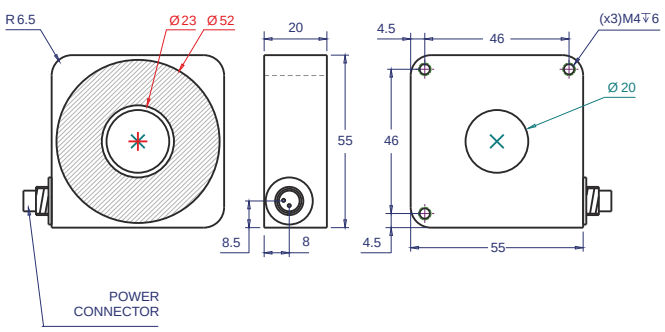
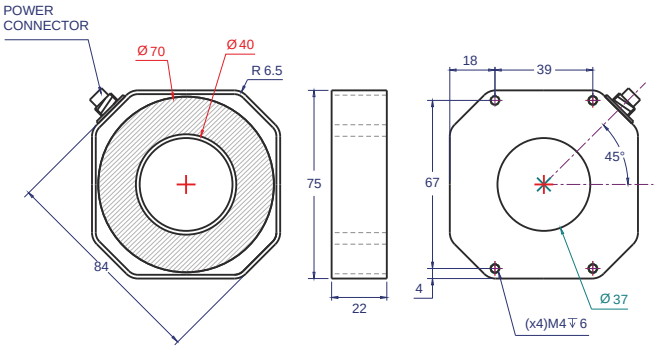
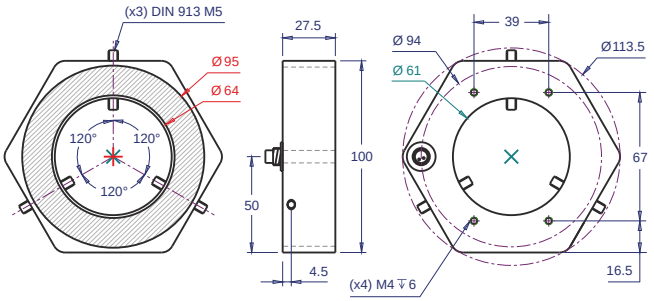
ALU SERIES



ALU0502A-E01B



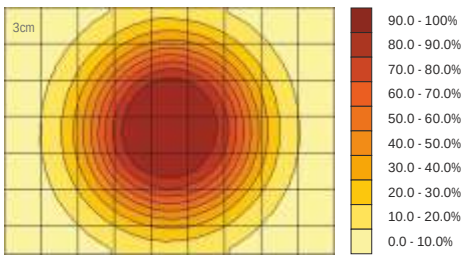
ALU0704A-E01B



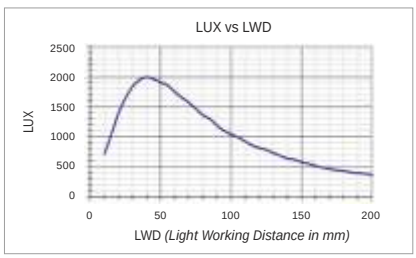
ALU1006A-E01B

All units in millimeters, if not indicated.

Example of ALU captured image



Brightness distribution of ALU1006A-630C@50mm

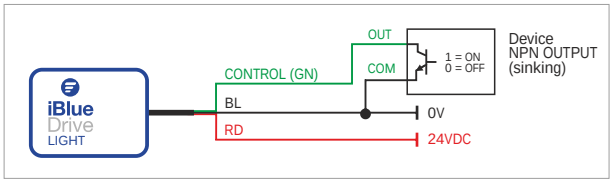


ALU1006A-630C light intensity.

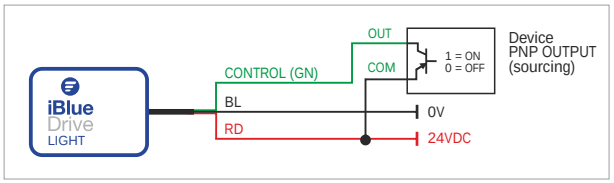
▶ Z1.2 - iBlueDrive control input wiring

All iBlueDrive products come together with a quick-start guide for connection and working conditions. Refer to iBlueDrive Manual for extended information.

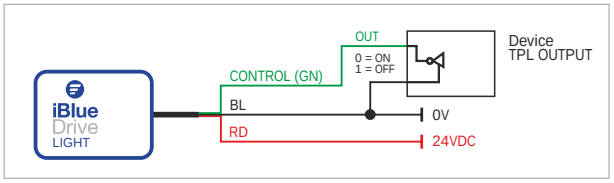
NPN wiring for strobe or ON/OFF mode



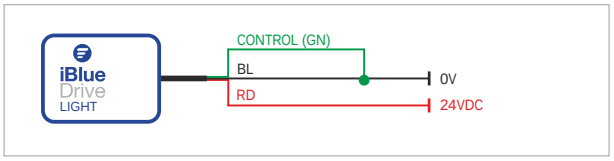
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

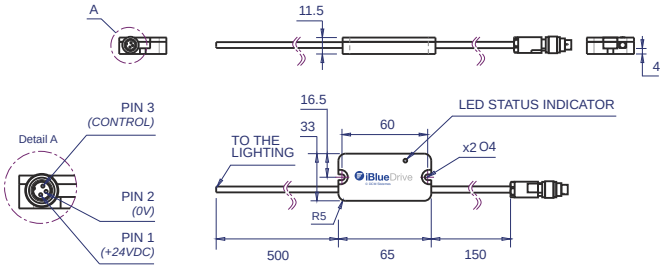


Wiring for continuous mode



▶ Z1.3 - iBlueDrive inline

iBlueDrive inline is the driver for iBlueDrive technology integrated as a box of 65x33mm to the cable that goes from the lighting system to the connector. It is used when iBlueDrive driver can not be integrated on chassis. *See diagram:*



WARNING!: In continuous and powered mode, clamp driver to a metal surface for heat dissipation. In Strobe mode is not required, but recommended.

Z1.4 - Environmental Specifications

Max. Operating Humidity	85% non-condensing
Operating Temperature	0 - 40ºC
Storage Temperature	0 - 60ºC
Housing material	Anodized aluminium
Standards	

Z2.1 - Modifiers legend

icon	Description	Code
	Narrow angle of emission	/AN
	Medium angle of emission *(By default)*	/AM
	Wide angle of emission	/AW
	Oval angle of emission = 23-24º (x) 17-18º (y)	/AO
	Diffuse emission	/AD
	Polarizer filter	/FPL
	Diffuser filter	/FDR
CC1	Dome hole of 46mm	/CC1
CC2	Dome hole of 40mm	/CC2
IP67	IP Rating = IP67	/67
PNP	PNP input model	/P
f1	50mm focal Length	/F1
f2	150mm focal Length	/F2
f3	Infinite focal Length	/F3

Z2.2 - Accessories legend

icon	Description	Serie
	Power cable/s	VCB, VCC, VCD Series
	Other cable/s	VCU, VCL
	Strobe and RGB controller/s	VST, VSC Series
	Polarizer filter	VPF, VPC
	Diffuser filter	VDF
	Collimater filter on x axis	VCFx
	Collimater filter on y axis	VCFy
	Collimater filter on xy axis	VCFxy
	Darkfield converter	VRF
	Protector filter	VPT
	Heat dissipator	VHD
	Fixing bracket	VBA, VBB, VBC Series

Z2.3 - iBlueDrive Accessories legend

icon	Description	Serie/Product
	Accessorie to configure iBlueDrive devices: iBlueDrive Box, iBlueDrive USB	VTA0005A, VTA0006A, VTA0007A
	iBlueDrive optocoupler	VTA0020A
	iBlueDrive potentiometer	VTA0030B

Z2.4 - Technical drawings legend

icon	Description
	Optical axis
	Viewing window dimensions
	Lighting elements
	Light emission center
	Lighting surface dimensions

Z2.5 - Colours & Wavelegths legend

icon	Wavelength	Colour	Code
-u	365nm	UV-	-365
u	400nm	UV	-400
B	470nm	BLUE	-470
G	525nm	GREEN	-525
R	630nm	RED	-630
i	850nm/880nm	IR	-850/-880
W		WHITE	-W00
		RGB	-RGB

Z2.6 - Types of lighting legend

icon	Description
	Radial lighting
	'Darkfield' lighting effect. Low angle illumination
	Backlight illumination
	'Cloudy day' lighting effect
	'Bright field' lighting effect
	Projector lighting
	Axial lighting

Z2.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light