PLU21.01

PLU SERIES

Diffuse linear lights projectors

LED's diffuse bar projector which provides a great amount of uniform light. This system uses high intensity LEDs in order to illuminate diffusely small surfaces.

Technical specifications[1]

Lighting model	PLU0602B	PLU1002A	PLU1302B	PLU1802A	PLU2602A
					
Dimensions	86x20x24	122x20x24	150x20x24	201x20x24	280x20x24
Active surface	64x16	100x16	128x16	180x16	259x16
RWD (mm)	>100	>110	>125	>160	>200
Weight	80g	98g	125g	150g	205g
IP rating	IP40[2]	IP40[2]	IP40[2]	IP40[2]	IP40[2]
Mounting holes	(x3)(x2)M4↧6	(x3)(x2)M4↧6	(x3)(x2)M4↧6	(x3)(x2)M4↧6	(x3)(x2)M4↧6
Connection *(Type C/S)*	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	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	VCB Series	VCB Series
Modifiers[3]	N/A	N/A	N/A	N/A	N/A
Accessories[4]					
iBlueDrive tech.	inline	inline	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]	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	VCC Series	VCC Series
iBlueDrive accessories[4]					

Instantaneous consumption[6] (max.)

Lighting model		PLU0602B	PLU1002A	PLU1302B	PLU1802A	PLU2602A	*WT
TYPE C 24VDC	B	1.7W	2.8W	3.8W	5.5W	6.6W	-470C
	G	1.7W	2.8W	3.8W	5.5W	6.6W	-525C
	R	1.8W	2.9W	4.1W	4.1W	7W	-630C
	I	1.8W	N/A	4.1W	4.1W	4.4W	-850C
	W	1.7W	2.8W	3.8W	3.8W	6.6W	-W00C
TYPE P		No 'Type P' standard LED lighting systems in this series					
TYPE S Dmax= 1/20 Ton max= 2ms	B	265mA/6.4W	440mA/11W	615mA/15W	880mA/21W	1055mA/25W	-470S
	G	265mA/6.4W	440mA/11W	615mA/15W	880mA/21W	1055mA/25W	-525S
	R	265mA/6.4W	440mA/11W	615mA/15W	615mA/15W	1055mA/25W	-630S
	I	625mA/15W	1045mA/25W	1465mA/35W	1465mA/35W	2510mA/60W	-850S
	W	265mA/6.4W	375mA/9W	615mA/15W	615mA/15W	1055mA/25W	-W00S
	RGB	CUS	CUS	900mA/22W channel	900mA/22W channel	CUS	-RGBS
TYPE i[7] iBlue Drive	B	1.8W[7.7W/1.4W]	2.6W[12W/2W]	3.5W[17W/2.6W]	4.8W[24W/3.6W]	5.7W[29W/4.2W]	-470i
	G	2.6W[7.7W/1.9W]	4.1W[12W/2.9W]	5.5W[17W/3.8W]	7.7W[24W/5.3W]	9.1W[29W/6.2W]	-525i
	R	2.6W[7.7W/1.9W]	4.1W[12W/2.9W]	5.5W[17W/3.8W]	5.5W[17W/3.8W]	9.1W[29W/6.2W]	-630i
	I	4.8W[15W/2.6W]	7.7W[24W/4.1W]	11W[34W/5.5W]	11W[34W/5.5W]	9.1W[29W/4.8W]	-850i
	W	2.6W[7.7W/1.9W]	4.1W[12W/2.9W]	5.5W[17W/3.8W]	5.5W[17W/3.8W]	9.1W[29W/6.2W]	-W00i

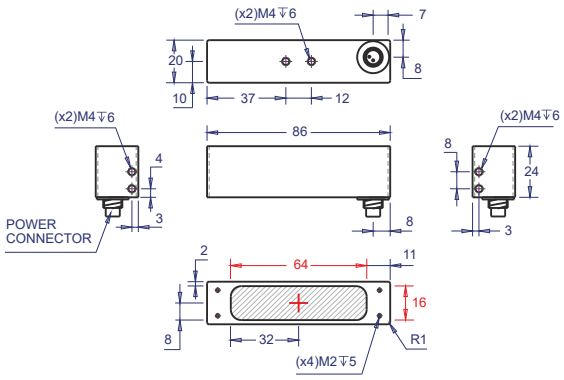
N/A= Not available CUS = Custom

(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]*

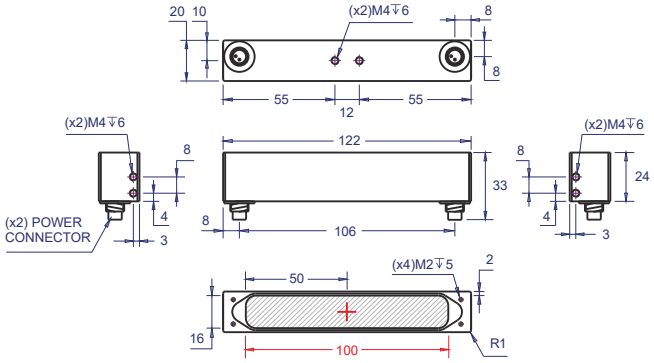
***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

PLU21.01

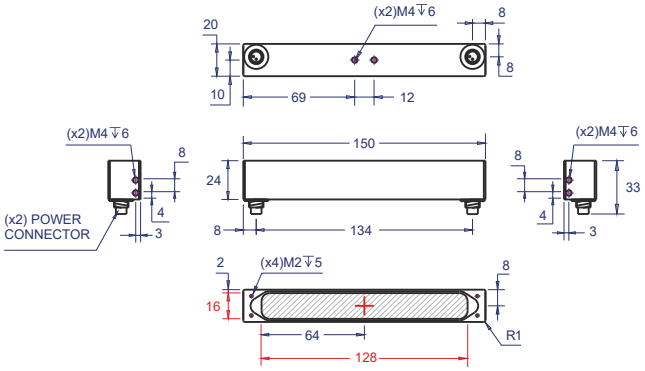
PLU SERIES



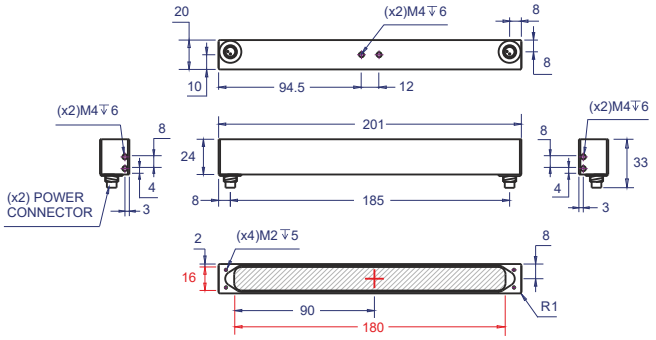
PLU0602B-E01C



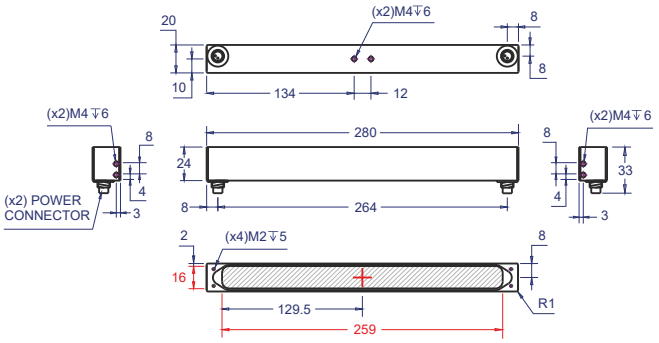
PLU1002A-E00C



PLU1302B-E00C

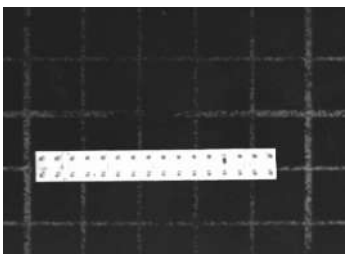


PLU1802A-E00C

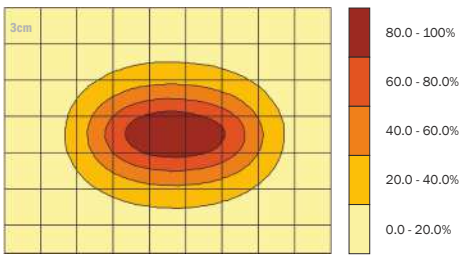


PLU2602A-E00C

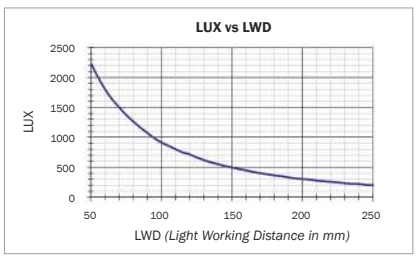
All units in millimeters, if not indicated.



Example of PLU captured image



Brightness distribution of PLU1302B-630C@50mm

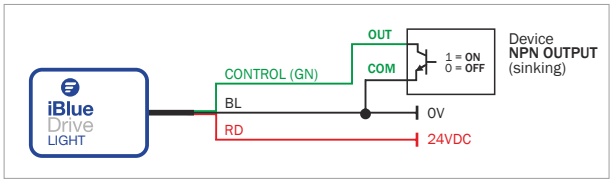


PLU2602A-630C light intensity.

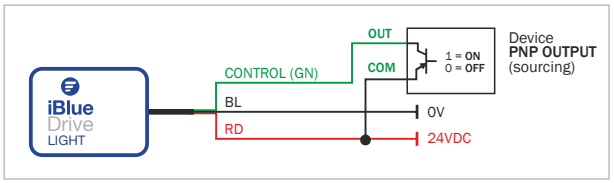
▶ Z2.1 - iBlueDrive control input wiring

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

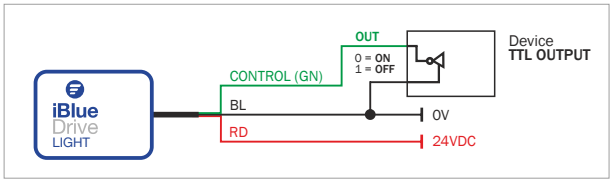
NPN wiring for strobe or ON/OFF mode



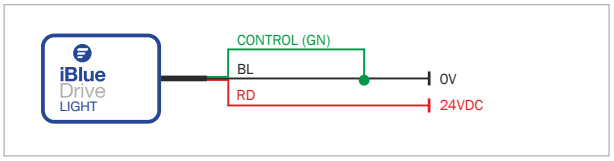
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

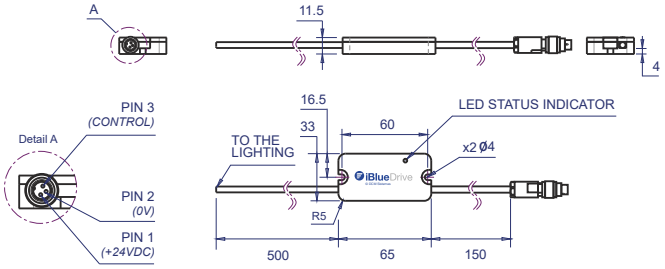


Wiring for continuous mode



▶ Z2.2 - 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.

▶ 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**

Z3.1 - Environmental Specifications

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

Z3.2 - Modifiers legend

icon	Description	Code
	Narrow angle of emission	**/AN**
	Medium angle of emission *(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**
H	Backlight hole of 42mm	**/H**
H1	Backlight hole of 65mm	**/H1**
CC1	Dome hole of 46mm	**/CC1**
CC2	Dome hole of 40mm	**/CC2**
IPxx	IP Rating = IPxx = Ip65 / IP67	**/65 /67**
PNP	PNP input model	**/P**
f1	50mm focal Length	**/F1**
f2	150mm focal Length	**/F2**
f3	Infinite focal Length	**/F3**
XS	Lighting by sectors = 2 or 4 sectors	**/2S /4S**

Z3.3 - 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**

Z3.4 - Technical drawings legend

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

Z3.5 - 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**

Z3.6 - 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

Z3.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light