

PLC SERIES

Compact linear lights projectors (1/2)

PLC19.01

Linear projector with high illumination for larger areas, longer distances and better performances.

This system produces great contrast and emphasizes textures, relieves and fissures that the lighted object could have.

► Technical specifications¹

Lighting model	PLC0307A	PLC0615A	PLC1231A
Dimensions	87x40x48	165x40x48	321x40x48
LEDs number	3	6	12
RWD (mm)	>50	>50	>50
Weight	220g	400g	775g
IP rating	IP40	IP40	IP40
Mounting holes	(x2)M4x6	(x2)M4x6	(x2)M4x6
Connection	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²
Power cable (Not-included)	VCC Series	VCC Series	VCC Series
Modifiers ³	N/A	N/A	N/A
Accessories ⁴			
iBlueDrive tech.	NO	NO	NO
iBlueDrive connection	NO	NO	NO
iBlueDrive power cable (Not-included)	NO	NO	NO
iBlueDrive accessories ³	NO	NO	NO

► Instantaneous consumption⁵ (max.)

*WT

Lighting model		PLC0307A	PLC0615A	PLC1231A	
TYPE C 24VDC		N/A	N/A	N/A	-365C
		5W	10W	20W	-400C
		5W	10W	20W	-470C
		5W	10W	20W	-525C
		5W	9W	18W	-630C
		5W	9W	18W	-850C
		5W	10W	20W	-W00C
TYPE P		No 'Type P' standard LED lighting systems in this series			
TYPE S		No 'Type S' standard LED lighting systems in this series			
TYPE i		No 'Type i' standard LED lighting systems in this series			

N/A= Not available CUS = Custom

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

(2) Control input specifications of PLC series in additional annex Z1.1.

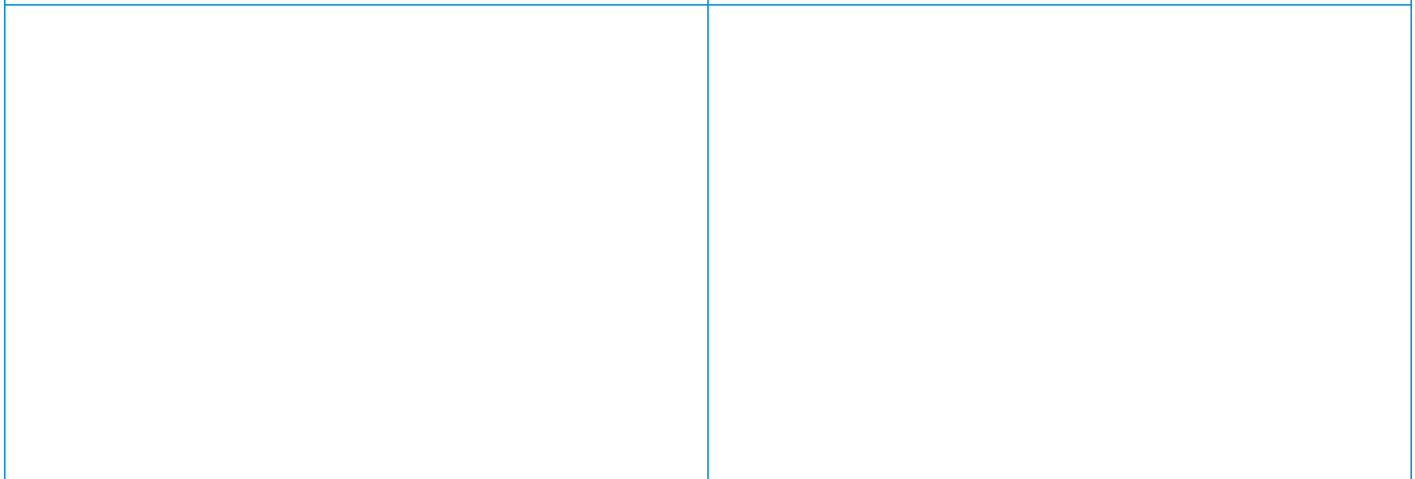
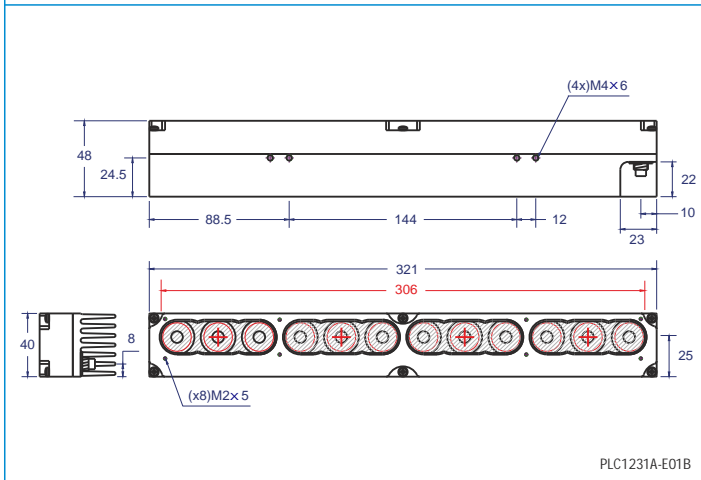
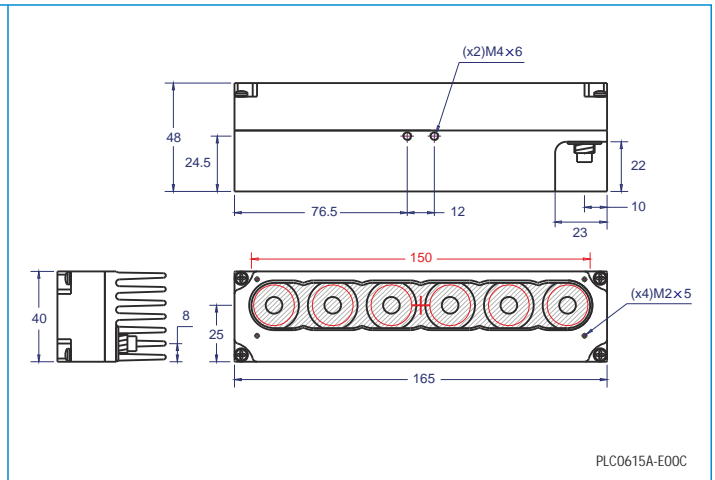
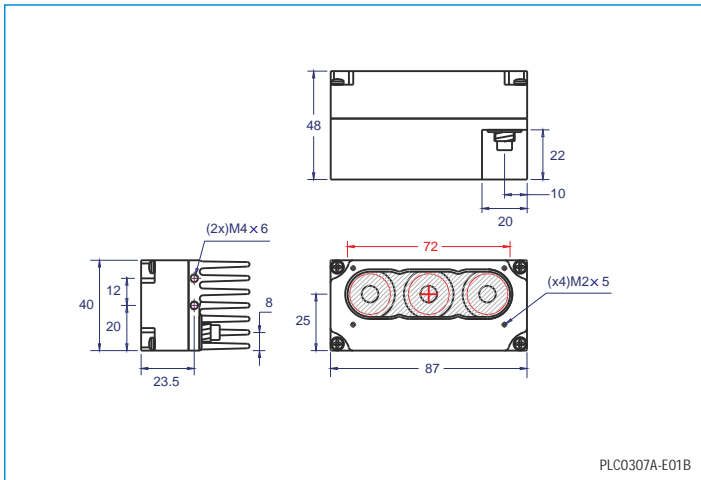
(3) Prior to manufacturing optional modifications in standard lighting systems. Please, consult the code before ordering (additional annex Z2.1).

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

(5) 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.



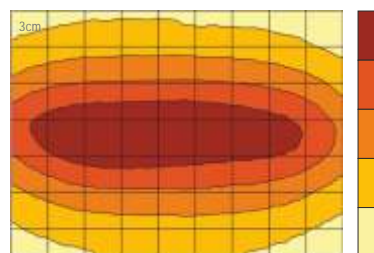
PLC SERIES



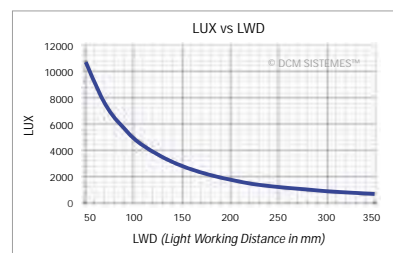
All units in millimeters, if not indicated.



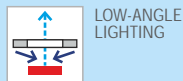
Example of PLC captured image



Brightness distribution of PLC1231A-630C@350mm



PLC1231A-630C light intensity.



PLC SERIES

Compact linear lights projectors (2/2)

Linear projector with high illumination for larger areas, longer distances and better performances.

This system produces great contrast and emphasizes textures, relieves and fissures that the lighted object could have.

► Technical specifications¹

Lighting model	PLC0412C	PLC0824C	PLC1236C	PLC1648C	PLC2060C
Dimensions	120x39x34.5	240x39x34.5	360x37x33	480x39x34.5	600x39x34.5
LEDs number	4	8	12	16	20
RWD (mm)	>50	>50	>50	>50	>50
Weight	264g	510g	680g	1070g	1335g
IP rating	IP65	IP65	IP65	IP65	IP65
Mounting holes	(x2)M4x6	(x2)M4x6	(x4)M4x6	(x2)M4x6	(x2)M4x6
Connection	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ²
Power cable (Not-included)	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series
Modifiers ³					
Accessories ⁴					
iBlueDrive tech.	Built-in	Built-in	Built-in	Built-in	Built-in
iBlueDrive connection	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴
iBlueDrive power cable (Not-included)	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series
iBlueDrive accessories ³					

► Instantaneous consumption⁵ (max.)

*WT

Lighting model	PLC0412C	PLC0824C	PLC1236C	PLC1648C	PLC2060C	
TYPE C 24VDC	5,4W	10,8W	16,2W	21,6W	27W	-365C
	5W	10W	18W	24W	24W	-400C
	5W	10W	18W	24W	24W	-470C
	5W	10W	18W	24W	24W	-525C
	4.5W	9.5W	15W	20W	20W	-630C
	4.5W	9.5W	14,5W	19W	24W	-850C
	4.5W	9.5W	18W	20W	20W	-W00C
TYPE P	No 'Type P' standard LED lighting systems in this series					
TYPE S	No 'Type S' standard LED lighting systems in this series					
TYPE i 	12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	-365i
	12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	-400i
	12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	-470i
	12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	-525i
	12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	-630i
	12W [24W/6.5W]	12W [24W/6.5W]	24W [48W/12W]	24W [48W/12W]	36W [72W/18W]	-850i
	12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	-W00i

N/A= Not available CUS = Custom

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

(2) Control input specifications of PLC series in additional annex Z1.1.

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

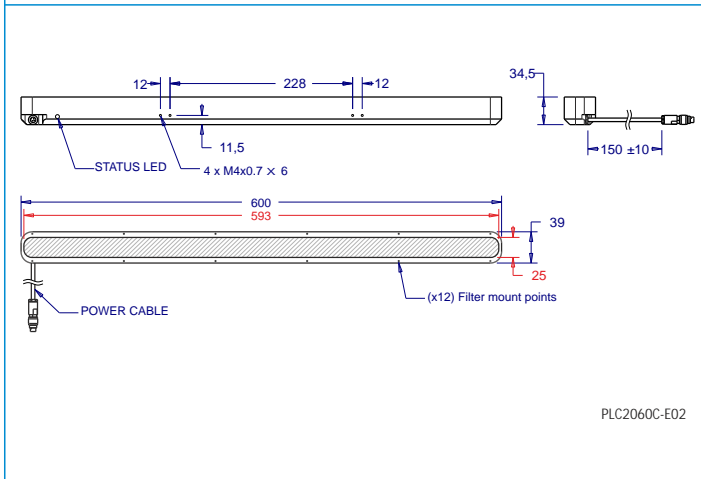
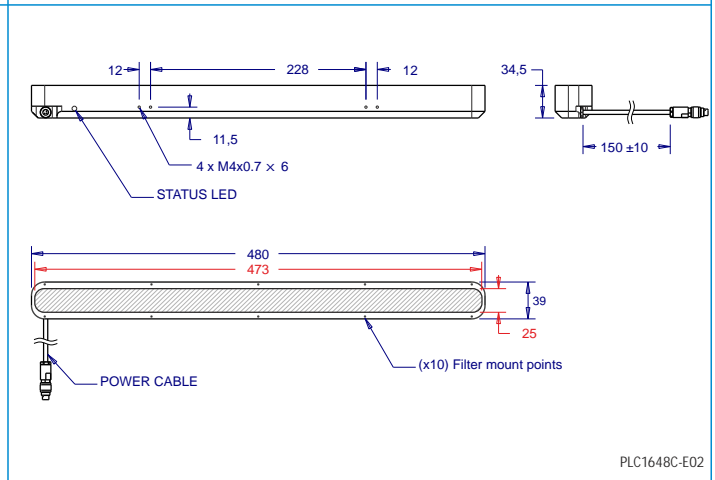
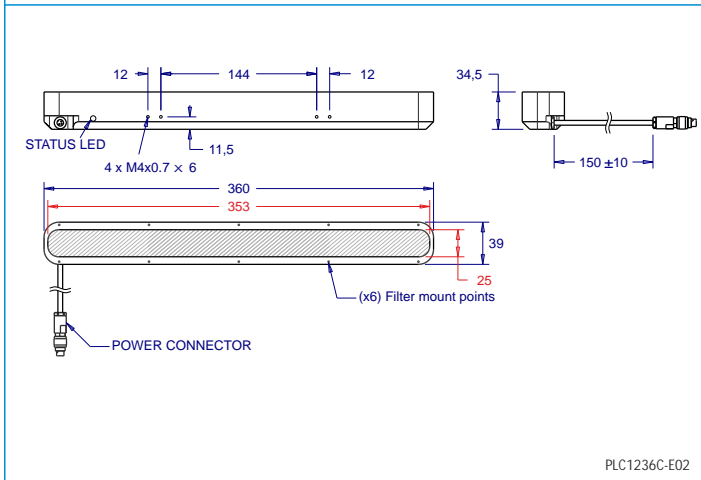
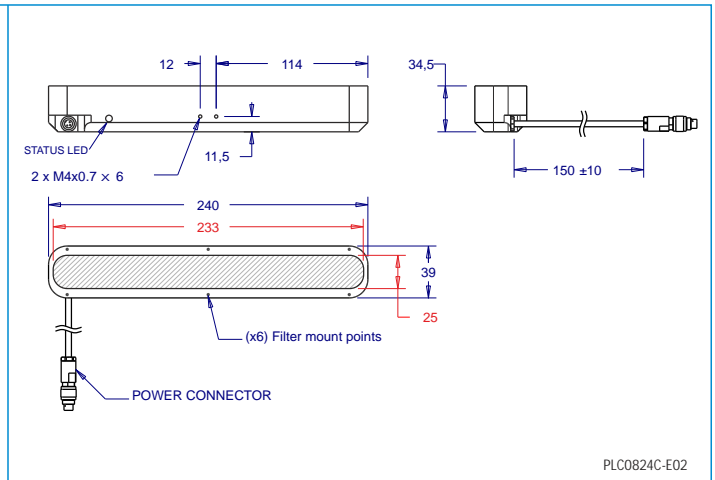
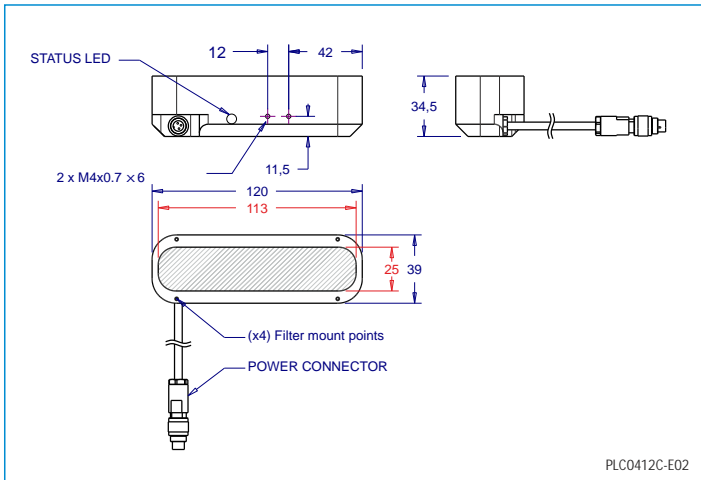
(4) Accessories are not-included. More information in accessories section.

(5) 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.

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



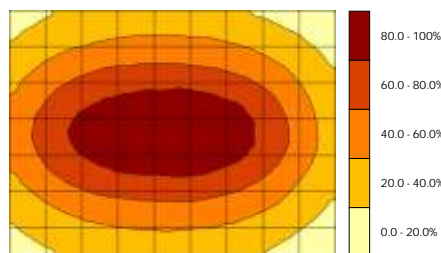
PLC SERIES



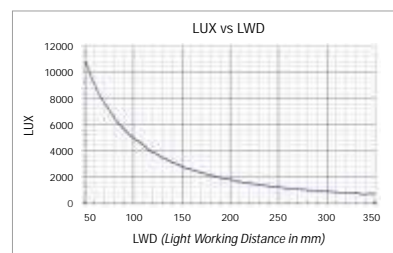
All units in millimeters, if not indicated.



Example of PLC captured image



Brightness distribution of PLC0824C-630C/AW@100mm



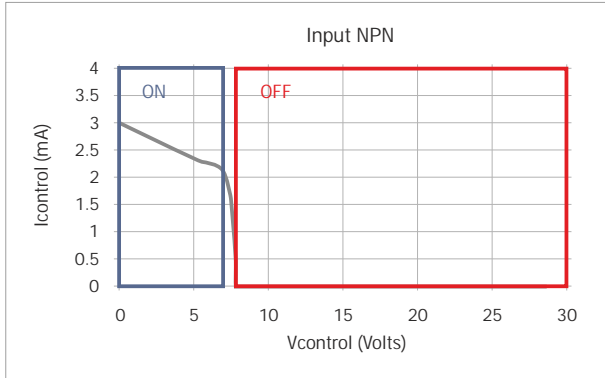
PLC0824C-630C light intensity.



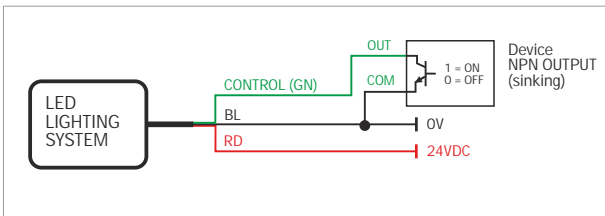
► Z1.1 - Control input NPN/PNP for 'Type C' lighting systems of DOL, PLA (PLA0513A and PLA1026A), PLC, PRC (PRC0604C and PRC0606B), PRH and PRK series.

■ NPN model (by default)

NPN chart of Vcontrol (Volts) vs Icontrol (mA)



NPN wiring for ON/OFF mode

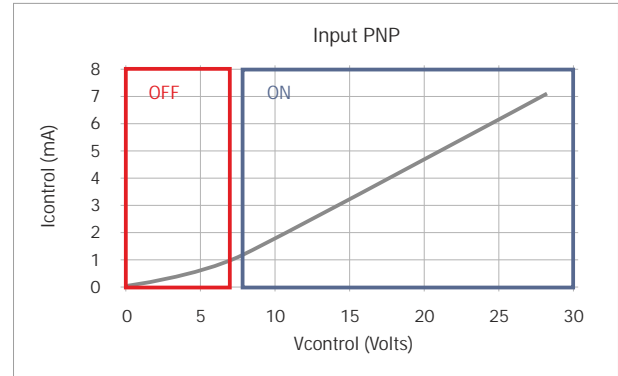


Electrical specifications

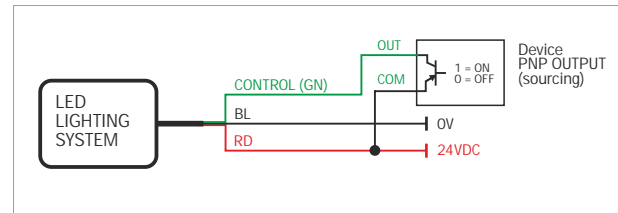
0V to +6.8V	Light ON
+7.2V to +24V	Light OFF
Working conditions	25°C, VIN = 24V
Connection	Direct to a NPN output
Delay from OFF to ON state	<5 µs
Delay from ON to OFF state	<5 µs
Bias voltage in control input	7.9V
Input impedance	7K9 ?

■ PNP model (lighting systems with PNP modifier =/P)

PNP chart of Vcontrol (Volts) vs Icontrol (mA)



PNP wiring for ON/OFF mode



Electrical specifications

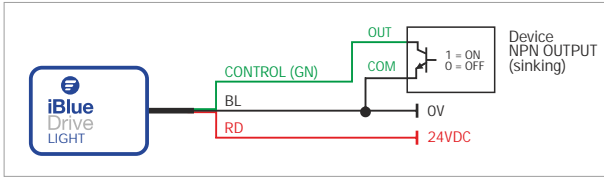
0V to +6.8V	Light OFF
+7.2V to +24V	Light ON
Working conditions	25°C, VIN = 24V
Connection	Direct to a PNP output
Delay from OFF to ON state	<5 µs
Delay from ON to OFF state	<5 µs
Bias voltage in control input	0V
Input impedance	4K ?
Compliance	IEC1131-2 Type 1, 2 and 3



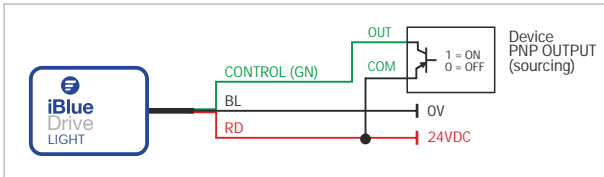
► Z1.2 - iBlueDrive control input wiring

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

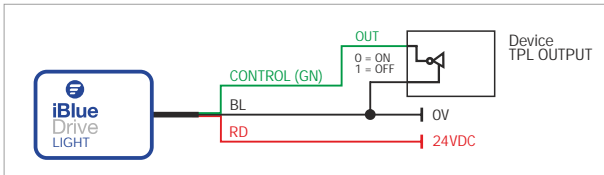
NPN wiring for strobe or ON/OFF mode



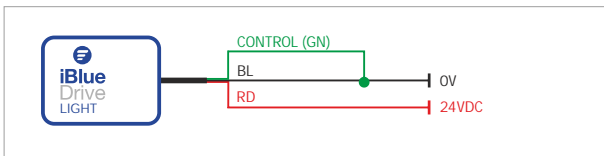
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

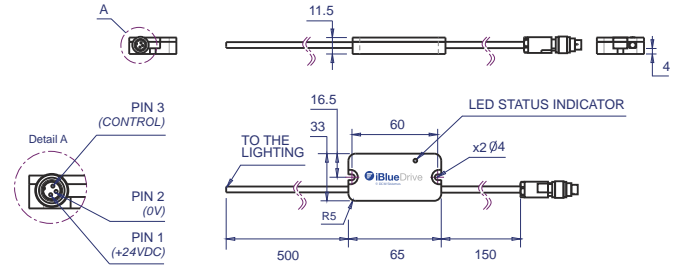


Wiring for continuous mode



► 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 - 40°C
Storage Temperature	0 - 60°C
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 = 23-24° (x) 17-18° (y)	/AO
	Diffuse emission	/AD
	Polarizer filter	/FPL
	Diffuser filter	/FDR
	Dome hole of 46mm	/CC1
	Dome hole of 40mm	/CC2
	IP Rating = IP67	/67
	PNP input model	/P
	50mm focal Length	/F1
	150mm focal Length	/F2
	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
	365nm	UV-	-365
	400nm	UV	-400
	470nm	BLUE	-470
	525nm	GREEN	-525
	630nm	RED	-630
	850nm/880nm	IR	-850/-880
		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