

# PLC SERIES

## Compact linear lights projectors (1/2)

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 specifications<sup>1</sup>

Lighting model	PLC0412D	PLC0824D	PLC1236D	PLC1648D	PLC2060D	PLC2472D
<b>Dimensions</b>	120x39x31	242x39x341	320x37x31	482x39x31	602x39x31	722x39x31mm
<b>LEDs number</b>	4	8	12	16	20	24
<b>RWD (mm)</b>	>50	>50	>50	>50	>50	>50
<b>Weight</b>	250g	490g	720g	990g	1240g	1550g
<b>IP rating</b>	IP65	IP65	IP65	IP65	IP65	IP65
<b>Mounting holes</b>	2 x M4I6	4 x M4I6	4 x M4I6	4 x M4I6	4 x M4I6	4 x M4I6
<b>Connection (Type C)</b>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>
<b>Power cable (Not-included)</b>	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series
<b>Modifiers<sup>2</sup></b>						
<b>Accessories<sup>3</sup></b>						
<b>Driver iBlueDrive</b>	<b>Built-in</b>	<b>Built-in</b>	<b>Built-in</b>	<b>Built-in</b>	<b>Built-in</b>	<b>Built-in</b>
<b>iBlueDrive connection</b>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>
<b>iBlueDrive power cable (Not-included)</b>	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series
<b>iBlueDrive accessories<sup>3</sup></b>						

### ► Instantaneous consumption<sup>5</sup> (max.)

\*WT

Lighting model	PLC0412D	PLC0824D	PLC1236D	PLC1648D	PLC2060D	PLC2472D		
<b>TYPE C</b> 24VDC		5,4W	10,8W	16,2W	21,6W	27W	32W	-365C
		5W	10W	14,5W	16W	24W	29W	-400C
		5W	11.5W	14,5W	16W	24W	29W	-470C
		5W	10W	14,5W	16W	24W	29W	-525C
		5.92W	11.8W	17.8W	23.7W	20W	24W	-630C
		4.5W	9.5W	14,5W	19W	24W	29W	-850C
		5W	10W	14,4W	19.8W	25W	30.1W	-W00C
<b>TYPE P</b>	No "Type P" standard LED lighting systems in this series							
<b>TYPE S</b>	No "Type S" standard LED lighting systems in this series							
<b>TYPE i<sup>6</sup></b> 		12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	72W [144W/36W]	-365i
		12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	72W [144W/36W]	-400i
		12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	72W [144W/36W]	-470i
		12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	72W [144W/36W]	-525i
		12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	72W [144W/36W]	-630i
		12W [24W/6.5W]	12W [24W/6.5W]	24W [48W/12W]	24W [48W/12W]	36W [72W/18W]	36W [72W/18W]	-850i
		12W [24W/6.5W]	24W [48W/12W]	36W [72W/18W]	48W [96W/24W]	60W [120W/30W]	72W [144W/36W]	-W00i

(1) Environmental specifications and iconography legend in additional annex Z4.

(2) Control input specifications of NPN / PNP in additional annex Z1.1.

If not indicated default angle of emission will be /AM.

Please, consult the code to select a different angle of emission before ordering (additional annex Z4.2).

(3) Please, consult the code before ordering (additional annex Z4.2).

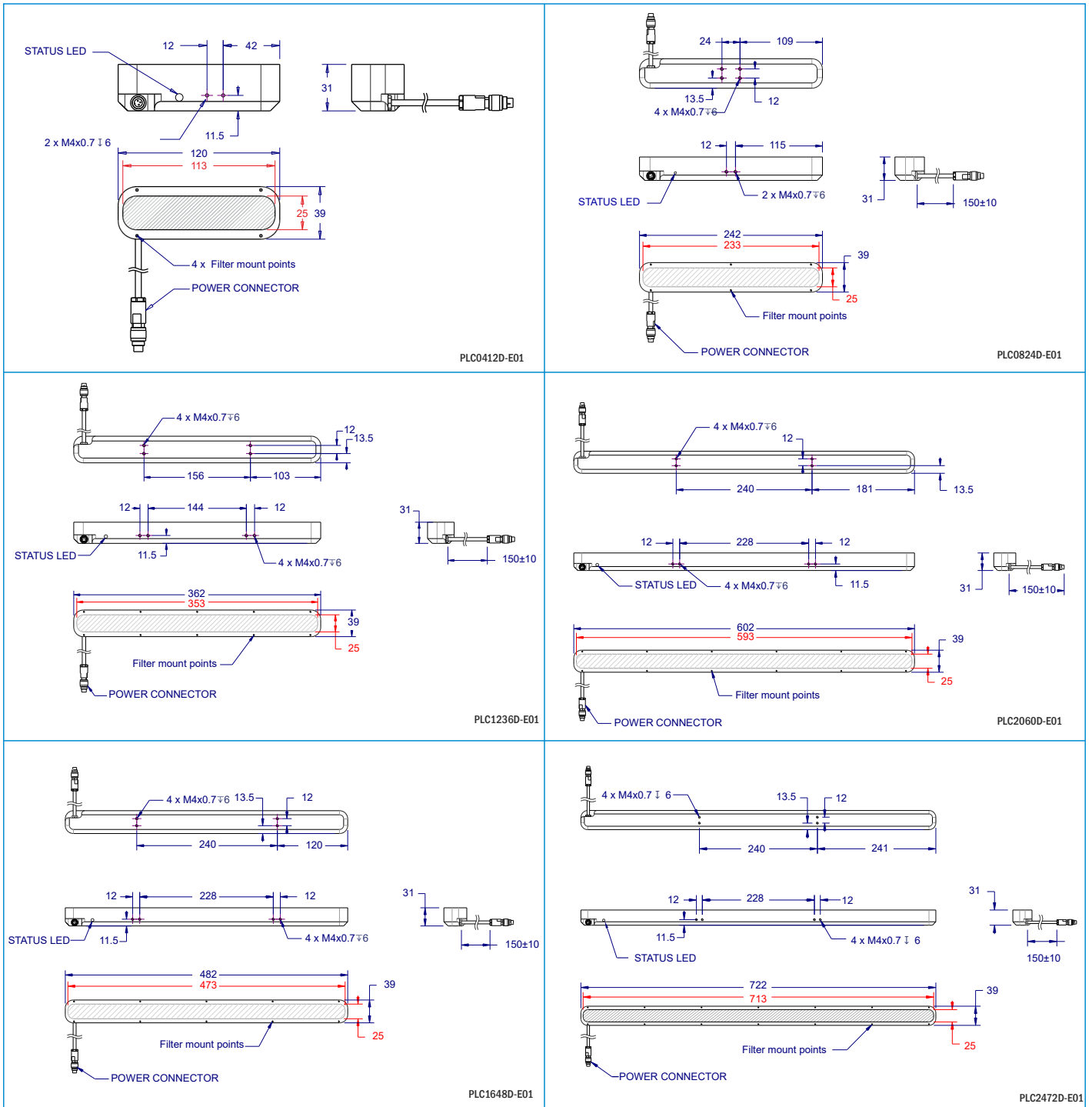
(4) Accessories are not-included. More information in accessories section.

(5) iBlueDrive control input wiring specifications in additional annex Z2.1.

(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.



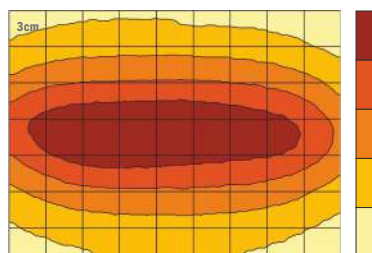
# PLC SERIES



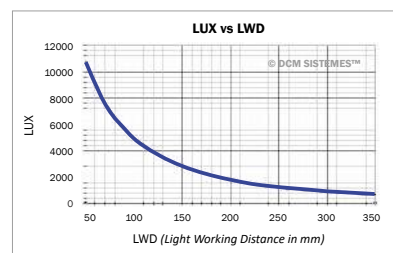
All units in millimeters, if not indicated.



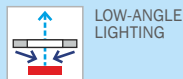
Example of PLC captured image



Brightness distribution of PLC1236D-630C@350mm



PLC1236D-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 specifications<sup>1</sup>

<b>Lighting model</b>	PLC3296D
	
<b>Dimensions</b>	962x39x31mm
<b>LEDs number</b>	32
<b>RWD (mm)</b>	>50
<b>Weight</b>	1800g
<b>IP rating</b>	IP65
<b>Mounting holes</b>	6 x M4I6
<b>Connection (Type C)</b>	3P aerial male connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>2</sup>
<b>Power cable (Not-included)</b>	VCC Series
<b>Modifiers<sup>2</sup></b>	
<b>Accessories<sup>3</sup></b>	
<b>Driver iBlueDrive</b>	Built-in
<b>iBlueDrive connection</b>	3P aerial male connector. L= 150mm PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>
<b>iBlueDrive power cable (Not-included)</b>	VCC Series
<b>iBlueDrive accessories<sup>3</sup></b>	

### ► Instantaneous consumption<sup>5</sup> (max.)

\*WT

Lighting model	PLC3296D		
<b>TYPE C</b> 24VDC		43W	-365C
		39W	-400C
		39W	-470C
		39W	-525C
		47.4W	-630C
		39W	-850C
		39W	-W00C
<b>TYPE P</b>	No "Type P" standard LED lighting systems in this series		
<b>TYPE S</b>	No "Type S" standard LED lighting systems in this series		
<b>TYPE i<sup>6</sup></b> 		96W [192W/48W]	-365i
		96W [192W/48W]	-400i
		96W [192W/48W]	-470i
		96W [192W/48W]	-525i
		96W [192W/48W]	-630i
		48W[96W/24W]	-850i
	96W [192W/48W]	-W00i	

(1) Environmental specifications and iconography legend in additional annex Z4.

(2) Control input specifications of NPN / PNP in additional annex Z1.1.

If not indicated default angle of emission will be /AM.

Please, consult the code to select a different angle of emission before ordering (additional annex Z4.2).

(3) Please, consult the code before ordering (additional annex Z4.2).

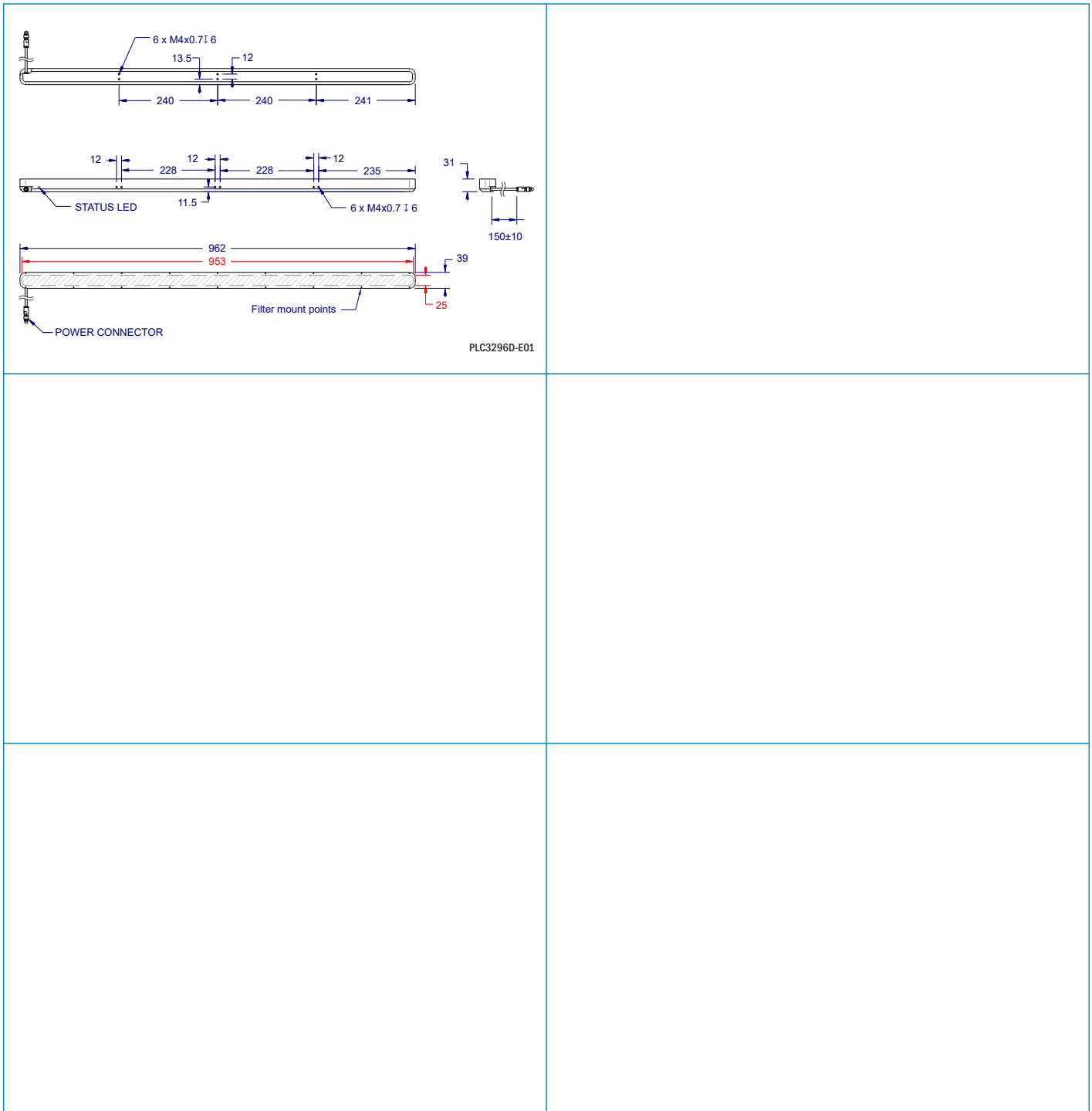
(4) Accessories are not-included. More information in accessories section.

(5) iBlueDrive control input wiring specifications in additional annex Z2.1.

(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.



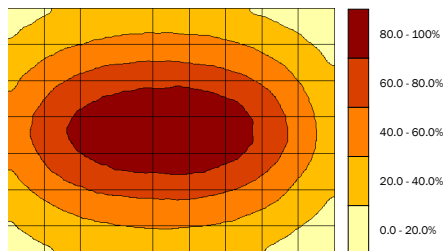
# PLC SERIES



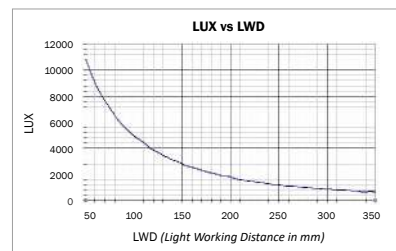
All units in millimeters, if not indicated.



Example of PLC captured image



Brightness distribution of PLC0824D-630C/AW@100mm

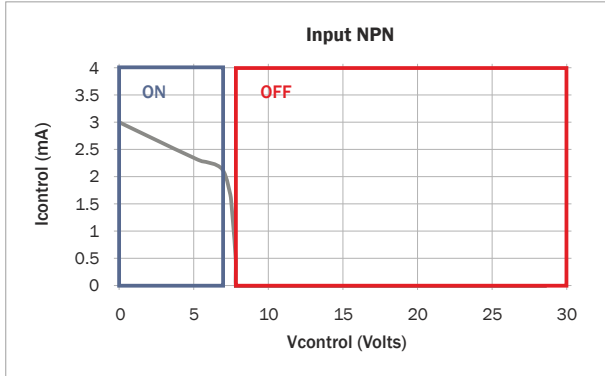


PLC0824D-630C light intensity.

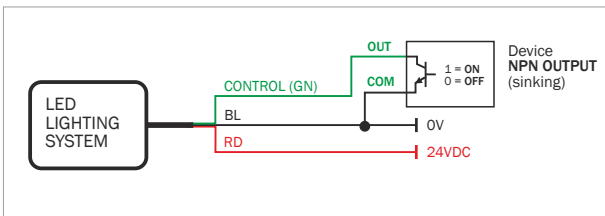
► Z1.1 - Control input NPN/PNP for 'Type C' lighting systems of DOL, PLA (PLA0513A and PLA1026A), PLC, PRC (PRC0604C and PRC0606B), PRH and PRK series.

■ NPN model (by default)

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



NPN wiring for ON/OFF mode

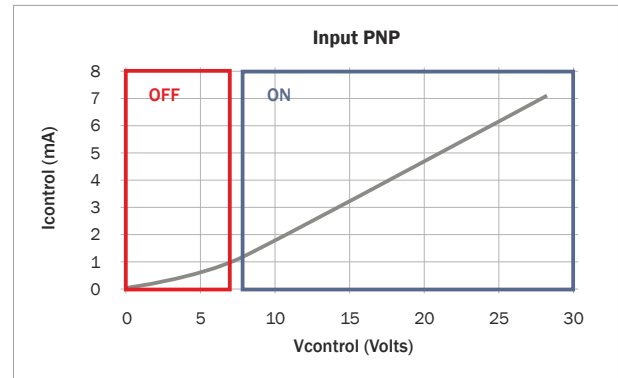


Electrical specifications

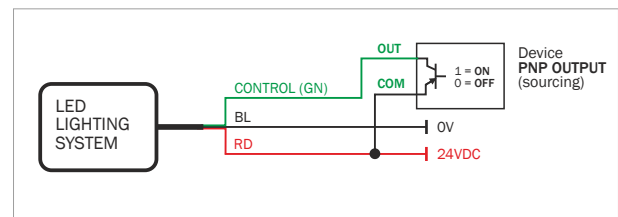
0V to +6.8V	Light ON
+7.2V to +24V	Light OFF
Working conditions	25°C, VIN = 24V
Connection	Direct to a NPN output
Delay from OFF to ON state	<5 μs
Delay from ON to OFF state	<5 μs
Bias voltage in control input	7.9V
Input impedance	7K9 Ω

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

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



PNP wiring for ON/OFF mode



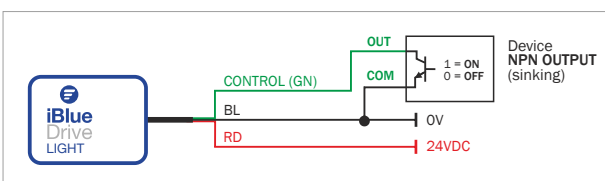
Electrical specifications

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 Ω
Compliance	IEC1.131-2 Type 1, 2 and 3

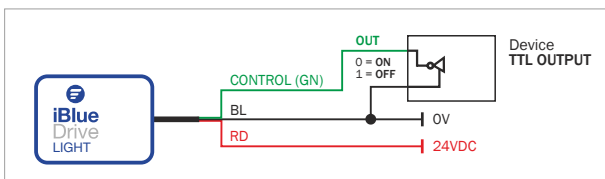
► Z2.1 - iBlueDrive control input wiring

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

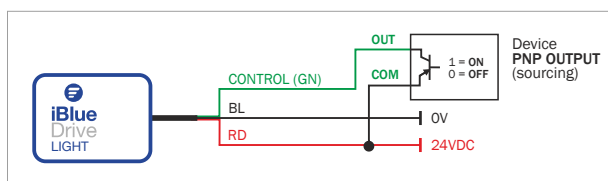
NPN wiring for strobe or ON/OFF mode



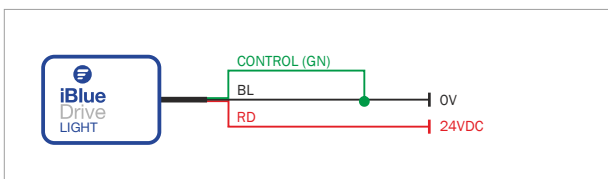
TTL wiring for strobe or ON/OFF mode



PNP wiring for strobe or ON/OFF mode



Wiring for continuous mode



► Z2.2 - iBlueDrive Accessories legend

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



► Z4.1 - Environmental Specifications

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

► Z4.2 - Modifiers legend

icon	Description	Code
	Narrow angle of emission	/AN
	Medium angle of emission (default)	/AM
	Wide angle of emission	/AW
	Diffuse emission	/AD
	Polarizer filter	/FPL
	Diffuser filter	/FDR
	Backlight hole of 42mm	/H
	Backlight hole of 65mm	/H1
	Dome hole of 46mm	/CC1
	Dome hole of 40mm	/CC2
	IP Rating = IPxx = Ip65 / IP67	/65 / 67
	PNP input model	/P
	50mm focal Length	/F1
	150mm focal Length	/F2
	Infinite focal Length	/F3
	Lighting by sectors = 4 sectors	/4S

► Z4.3 - 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, y axis or both	VCF
	Darkfield converter	VRF
	Protector filter	VPT
	Heat dissipator	VHD
	Fixing bracket	VBA, VBB, VBC Series

► Z4.4 - Technical drawings legend

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

► Z4.5 - 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

► Z4.6 - 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

► Z4.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light