

PRD SERIES

Spot projectors

























Ideal lighting system designed for applications in which great amount of light is needed in a small surface. It is used to produce great contrast and emphasize textures, relieves and fissures that the lighted object could have due to the fact that any relief, even the smallest one, produces a shadow.

► Technical specifications¹

Lighting model	PRD0200A	PRD0500B
		
Dimensions	∅20x58	∅46x31
RWD (mm)	>50	>50
Weight	75g	95g
IP rating	IP40	IP65
Mounting holes	BODY ∅12x39	(x4) M4 x 6
Connection	BN/RD = +24V ±3% BU/BK = 0V	2P aerial male connector. PIN 1 = +24V ±3% PIN 2 = 0V
Power cable	Pre-cabled with flying leads 2x0.5mm ² L=1.8m	VCB Series (Not-included)
Modifiers ³	N/A	
Accessories ⁴		
iBlueDrive tech.	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
iBlueDrive power cable (Not-included)	VCC Series	VCC Series
iBlueDrive accessories ⁴		

► Instantaneous consumption⁶ (max.)

*WT

Lighting model		PRD0200A	PRD0500B	
TYPE C 24VDC		0.5W	1.3W	-470C
		0.2W	0.6W	-525C
		0.5W	2W	-630C
		0.5W	1.6W	-850C
TYPE P D _{max} = ½ Ton max= 60s		0.5W	1.6W	-365P
		0.5W	1.6W	-400P
		0.5W	1.6W	-W00P
TYPE S D _{max} = ½ ₂₀ Ton max= 2ms		90mA/2.2W	265mA/6.4W	-365S
		90mA/2.2W	265mA/6.4W	-400S
		90mA/2.2W	265mA/6.4W	-470S
		55mA/1.3W	165mA/4W	-525S
		90mA/2.2W	265mA/6.4W	-630S
		210mA/5W	420mA/10W	-850S
		90mA/2.2W	265mA/6.4W	-W00S
		90mA/2.2W	265mA/6.4W	-W00S
TYPE i ⁷ 		0.8W[2.9W/0.7W]	1.3W[7.7W/1.1W]	-365i
		1.0W[2.9W/0.7W]	1.9W[7.7W/1.2W]	-400i
		0.9W[2.9W/0.8W]	1.8W[7.7W/1.3W]	-470i
		0.8W[1.7W/0.7W]	1.5W[4.1W/1.1W]	-525i
		1.2W[2.9W/1.0W]	2.6W[7.7W/1.9W]	-630i
		1.8W[5.3W/1.2W]	3.1W[10W/1.9W]	-850i
		1.0W[2.9W/0.7W]	1.9W[7.7W/1.2W]	-W00i
		1.0W[2.9W/0.7W]	1.9W[7.7W/1.2W]	-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.

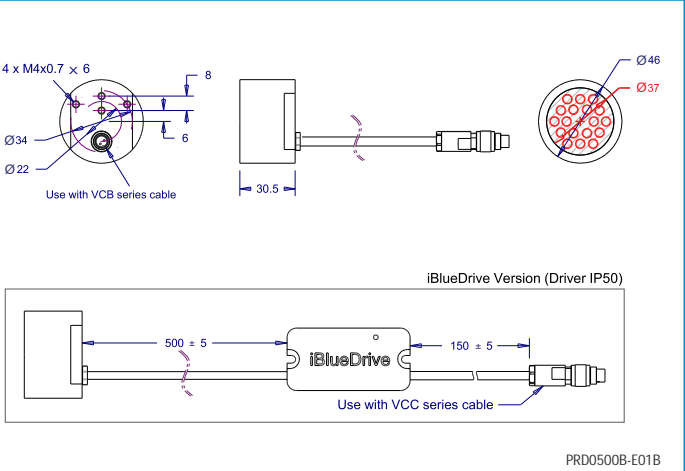
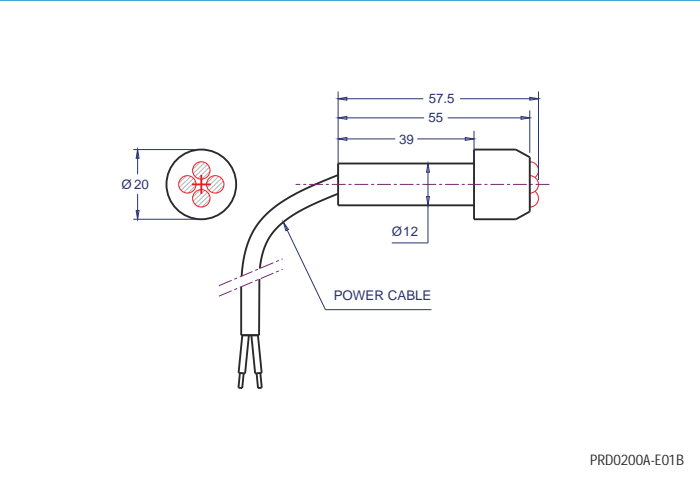
(5) iBlueDrive control input wiring specifications in additional annex Z1.2.

(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.

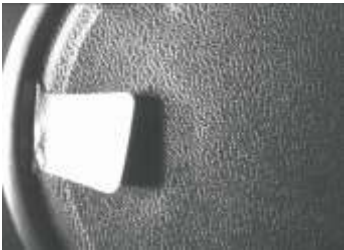
(7) Values of maximum instantaneous consumption of 'Type i' lighting systems in Powered mode [Strobe mode / Continuous mode]



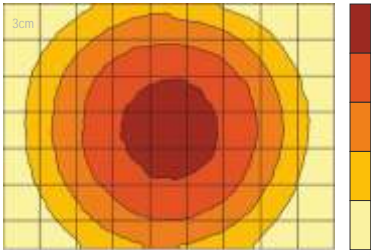
PRD SERIES



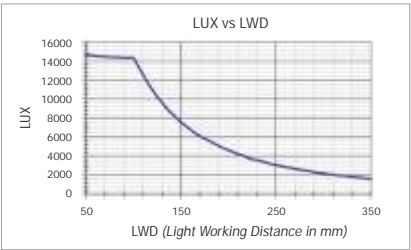
All units in millimeters, if not indicated.



Example of PRD captured image



Brightness distribution of PRD0500B-630C@350mm

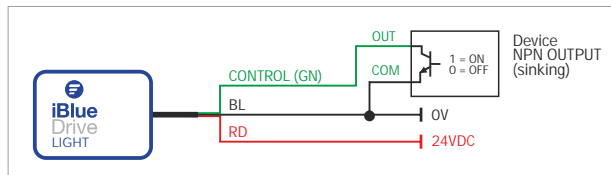


PRD0500B-630C light intensity.

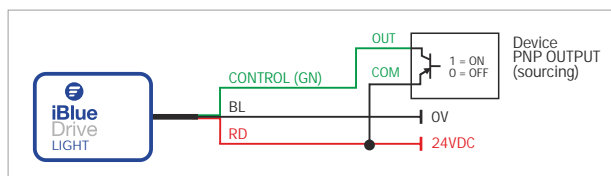
► Z1.2 - iBlueDrive control input wiring

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

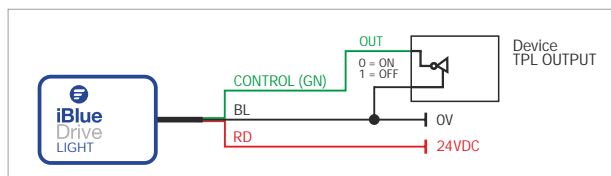
NPN wiring for strobe or ON/OFF mode



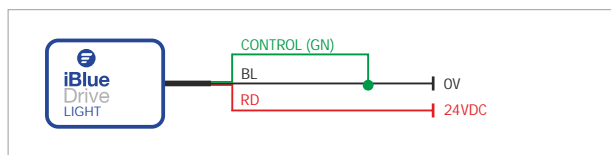
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

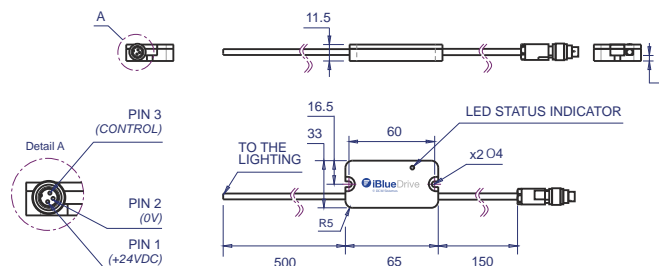


Wiring for continuous mode



► 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 - 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
	Collimator filter on x axis	VCFx
	Collimator filter on y axis	VCFy
	Collimator 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