

# PRA SERIES

## Compact coaxial spot lighting


















Designed to replace fiber optic light sources in coaxial/lensing applications. These Spotlights have a tip diameter of 8mm and an emitting surface diameter of 6mm, and can be mounted on the coaxial unit of a macro lens or a telecentric lens. This series features low power consumption.

### ► Technical specifications<sup>1</sup>

Lighting model	PRA0818A
	
Dimensions	∅8x12
LEDs number	1
RWD (mm)	<50mm
Weight	20g
IP rating	IP40
Mounting holes	BODY Ø8 x 12mm
Connection	2P aerial male connector PIN 1 = +24V ±3% PIN 2 = 0V
Power cable	VCB Series
Modifiers <sup>4</sup>	
Accessories <sup>5</sup>	
iBlueDrive tech.	Inline
iBlueDrive connection	3P aerial male connector. L= 150mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>6</sup>
iBlueDrive power cable	VCC Series
iBlueDrive Accessories <sup>5</sup>	

### ► Instantaneous consumption<sup>7</sup> (max.)

\*WT

Lighting model		PRA0818A	
TYPE C 24VDC		0.4W	-470C
		0.5W	-525C
		0.7W	-630C
		1W	-850C
		0.5W	-W00C
TYPE P		No 'Type P' standard LED lighting systems in this series	
TYPE S Dmax= 1/2° Ton max= 2ms		2.4W	-470S
		2.4W	-525S
		2.2W	-630S
		4.8W	-850S
		2.4W	-W00S
		N/A	-RGBS
TYPE i <sup>8</sup> 		1.2W [5.3W/1W]	-470i
		1.2W [5.3W/1W]	-525i
		1.3W [5.3W/1.1W]	-630i
		1.4W [5.3W/1W]	-850i
		1.2W [5.3W/1W]	-W00i

N/A= Not available CUS = Custom

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

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

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

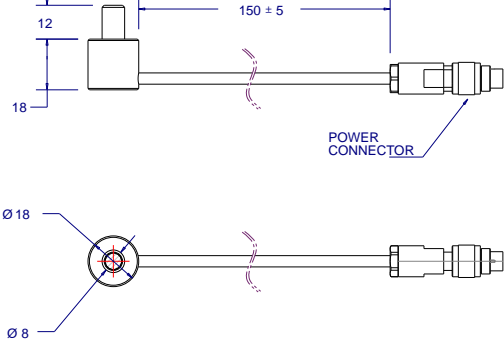
(4) iBlueDrive control input wiring specifications in additional annex Z1.2.

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



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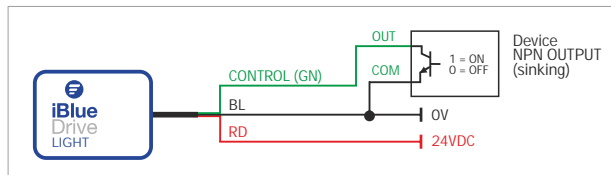
 <p>PRA0818A-E01</p>	

All units in millimeters, if not indicated.

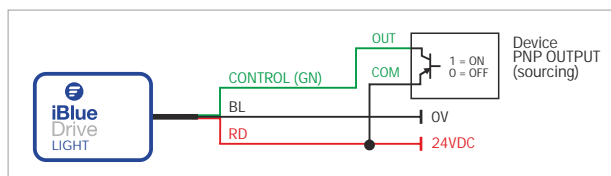
## ► Z1.2 - iBlueDrive control input wiring

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

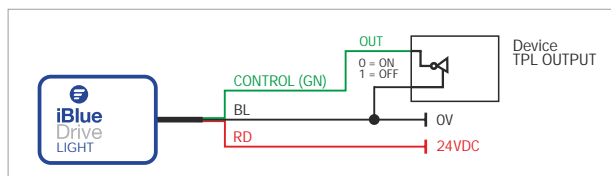
### NPN wiring for strobe or ON/OFF mode



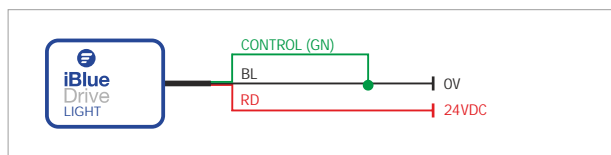
### PNP wiring for strobe or ON/OFF mode



### TTL wiring for strobe or ON/OFF mode

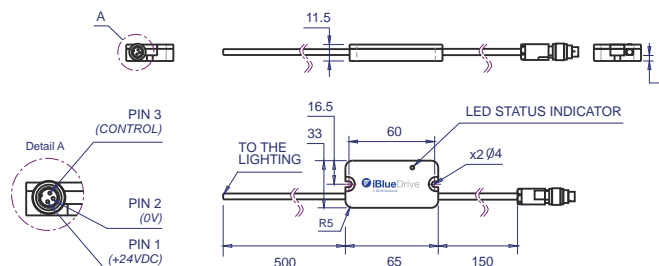


### Wiring for continuous mode



## ► 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