

DOM SERIES

Dome lights (1/2) - DOM0906A to DOM4127A

'Cloudy day' lighting system. Illuminate objects from camera axis to all directions, providing great amount of uniform light that eliminates brightness and shadows. It is one of the most effective device in equaling the surface to illuminate.

This lighting type is ideal for shinning and curved surfaces.

Technical specifications¹

Lighting model	DOM0906A	DOM1410A	DOM1613A	DOM2414A	DOM3218A	DOM4127A
Dimensions	96x96x50	145x145x72	170x170x86	259x259x100	337x337x116	425x425x181
Bottom Ø	55	100	125	144	180	265
RWD (mm)	<20	<20	<20	<20	<20	<20
Weight	139g	274g	391g	690g	1240g	2180g
IP rating	IP00	IP00	IP00	IP00	IP00	IP00
Mounting holes	(x8)Ø3▽THRU	(x8)Ø3▽THRU	(x8)Ø3▽THRU	(x8)Ø4▽THRU	(x8)Ø4▽THRU	(x8)Ø4▽THRU
Connection	BN = +24V BU = 0V	BN = +24V BU = 0V	BN = +24V BU = 0V	BN = +24V BU = 0V	BN = +24V BU = 0V	BN = +24V BU = 0V
Power cable	Pre-cabled with free terminals 2x0.5mm ² Lenght=1.8m	Pre-cabled with free terminals 2x0.5mm ² Lenght=1.8m	Pre-cabled with free terminals 2x0.5mm ² Lenght=1.8m	Pre-cabled with free terminals 2x0.5mm ² Lenght=1.8m	Pre-cabled with free terminals 2x0.5mm ² Lenght=1.8m	Pre-cabled with free terminals 2x0.5mm ² Lenght=1.8m
Modifiers ²	NO	NO	NO	NO		
Accessories ³						
iBlueDrive tech.	inline	inline	inline	inline	NO	NO
iBlueDrive connection	3P aerial male inline connector. L= 750mm. PIN 1 = +24V PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 750mm. PIN 1 = +24V PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 750mm. PIN 1 = +24V PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 750mm. PIN 1 = +24V PIN 2 = 0V PIN 3 = Control ⁴	NO	NO
iBlueDrive power cable (Non-included)	VCC Series	VCC Series	VCC Series	VCC Series	NO	NO
iBlueDrive accessories ³					NO	NO

Instantaneous consumption⁵ (max.)

*WT

Lighting model	DOM0906A	DOM1410A	DOM1613A	DOM2414A	DOM3218A	DOM4127A		
TYPE C 24VDC		3.8W	8.5W	7.6W	17W	29W	43W	-470C
		3.8W	8.5W	7.6W	17W	29W	43W	-525C
		3.6W	8.5W	10W	19W	33W	43W	-630C
		4W	9.2W	11W	21W	40W	51W	-880C
		4W	9.2W	11W	21W	40W	51W	-940C
		3.8W	8.5W	7.6W	17W	29W	43W	-W00C
TYPE P	No 'Type P' standard LED lighting systems in this series							
TYPE S Dmax= 1/20 Ton max= 2ms		705mA/17W	1585mA/38W	1410mA/34W	3170mA/76W	5280mA/127W	7920mA/190W	-470S
		705mA/17W	1585mA/38W	1410mA/34W	3170mA/76W	5280mA/127W	7920mA/190W	-525S
		705mA/17W	1585mA/38W	1410mA/34W	3170mA/76W	5280mA/127W	7920mA/190W	-630S
		1255mA/30W	2925mA/70W	3345mA/80W	6690mA/161W	12540mA/301W	16300mA/391W	-880S
		1255mA/30W	2925mA/70W	3345mA/80W	6690mA/161W	12540mA/301W	16300mA/391W	-940S
		705mA/17W	1585mA/38W	1410mA/34W	3170mA/76W	5280mA/127W	7920mA/190W	-W00S
TYPE I ⁶ 		3.9W[20W/3W]	8.3W[44W/6.1W]	7.4W[39W/5.5W]	16W[48W/12W]	N/A	N/A	-470i
		6.2W[20W/4.3W]	13W[44W/9.1W]	12W[39W/8.2W]	26W[48W/18W]	N/A	N/A	-525i
		6.2W[20W/4.3W]	13W[44W/9.1W]	12W[39W/8.2W]	26W[48W/18W]	N/A	N/A	-630i
		9.1W[29W/4.8W]	21W[48W/11W]	24W[48W/12W]	47W[48W/24W]	N/A	N/A	-880i
		9.1W[29W/4.8W]	21W[48W/11W]	24W[48W/12W]	47W[48W/24W]	N/A	N/A	-940i
		6.2W[20W/4.3W]	13W[44W/9.1W]	12W[39W/8.2W]	26W[48W/18W]	N/A	N/A	-W00i

N/A= Not available CUS = Custom

(1) Environmental specifications and iconography legend in additional annex Z1.1 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 non-included. More information in accessories section.

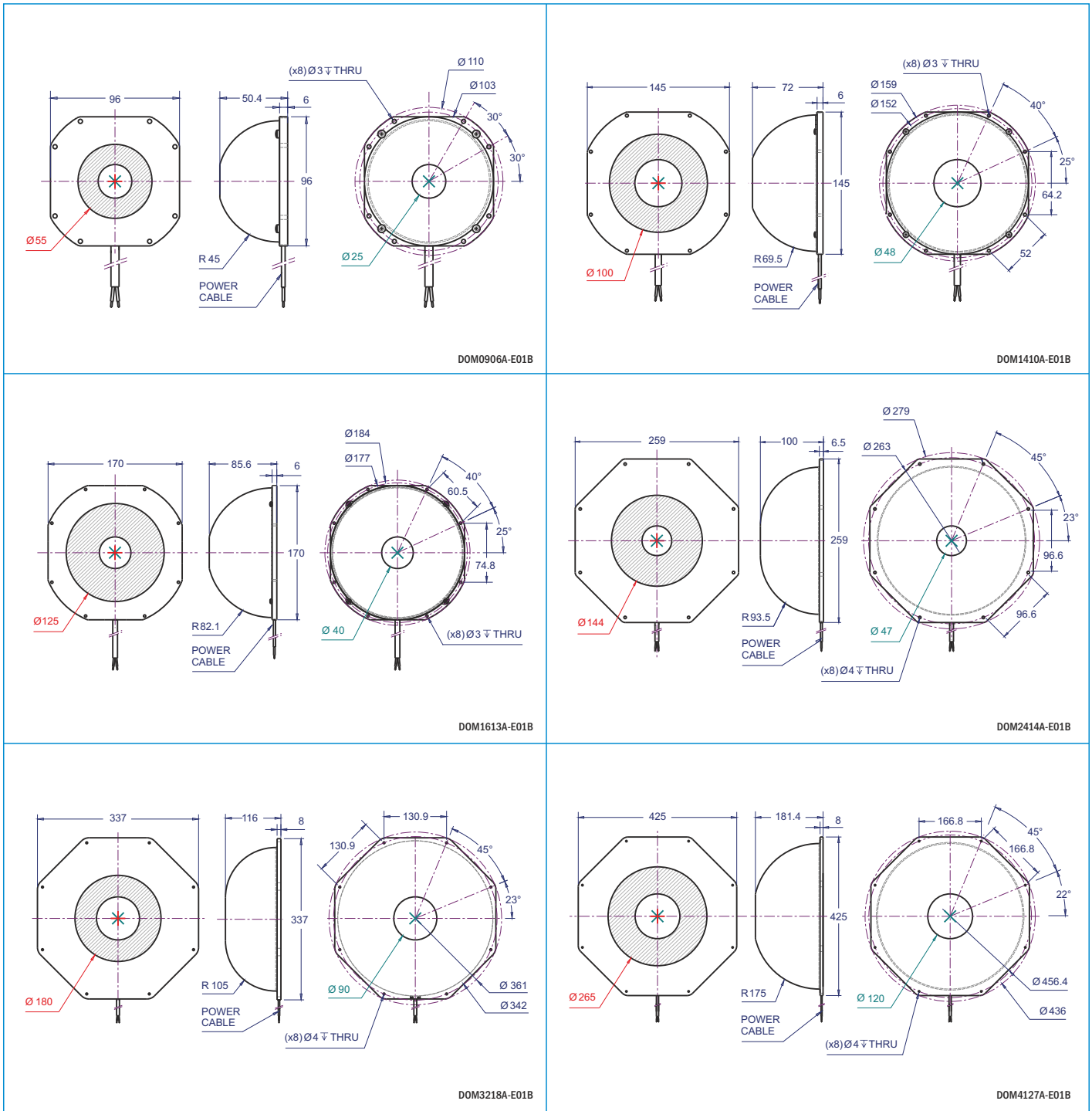
(4) iBlueDrive control input wiring specifications in additional annex Z1.3.

(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)**



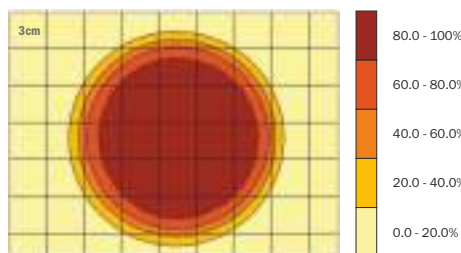
DOM SERIES



All units in millimeters, if not indicated.



Example of DOM captured image



Brightness distribution of DOM1410A-630C@5mm



DOM SERIES

Dome lights (2/2) - DOM5652A

'Cloudy day' lighting system. Illuminate objects from camera axis to all directions, providing great amount of uniform light that eliminates brightness and shadows. It is one of the most effective device in equaling the surface to illuminate.






















This lighting type is ideal for shinning and curved surfaces.

► Technical specifications¹

Lighting model	DOM5652A
	
Dimensions	570x579x264
Bottom Ø	516
RWD (mm)	<50
Weight	2400g
IP rating	IP00
Mounting holes	(x8)Ø4.5▽THRU
Connection	BN = +24V BU = 0V
Power cable	Pre-cabled with free terminals 2x1mm ² Lenght=1.8m
Modifiers²	NO
Accessories³	
iBlueDrive tech.	NO
iBlueDrive connection	NO
iBlueDrive power cable (Non-included)	NO
iBlueDrive accessories³	NO

► Instantaneous consumption⁴ (max.)

*WT

Lighting model	DOM5652A		
TYPE C 24VDC		120W	-470C
		120W	-525C
		120W	-630C
		N/A	-880C
		N/A	-940C
		120W	-W00C
	TYPE P		
TYPE S D _{max} = 1/20 Ton max= 2ms		13860mA/333W	-470S
		5235mA/126W	-525S
		13860mA/333W	-630S
		N/A	-880S
		N/A	-940S
		5235mA/126W	-W00S
		N/A	-RGBS
TYPE i⁵ 		N/A	-470i
		N/A	-525i
		N/A	-630i
		N/A	-880i
		N/A	-940i
		N/A	-W00i
		N/A	-W00i

N/A= Not available CUS = Custom

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

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

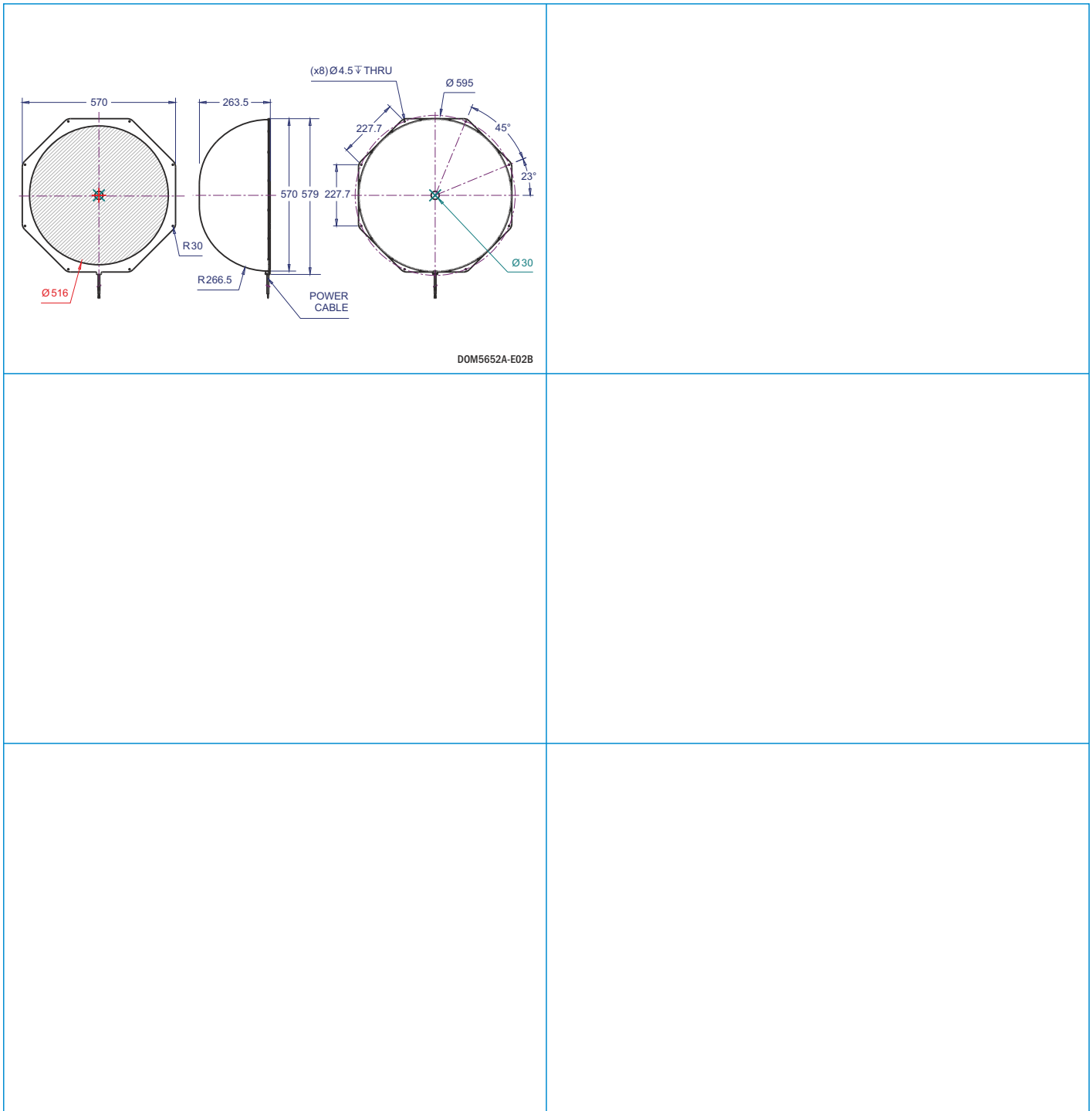
(3) Accessories are non-included. More information in accessories section.

(4) 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.

(5) Values of maximum instantaneous consumption of **Type I'** lighting systems in **Powered mode (Strobe mode / Continuous mode)**



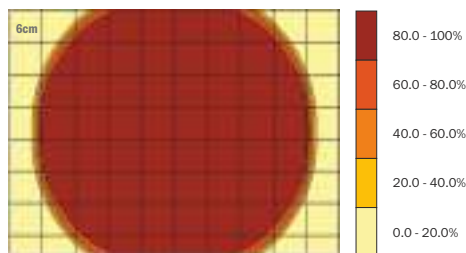
DOM SERIES



All units in millimeters, if not indicated.





Example of DOM captured image



Brightness distribution of DOM5652A-W00C@5mm



► Table Z1.1 - Environmental Specifications

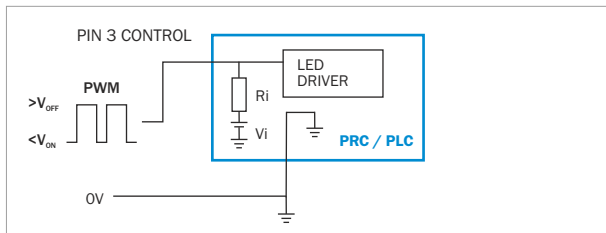
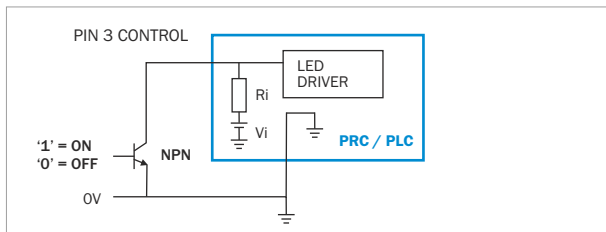
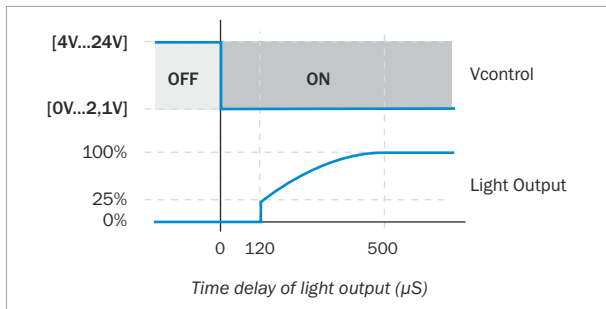
Max. Operating humidity	85% non-condensing
Operating Temperature	0 - 40°C
Storage Temperature	0 - 60°C
Housing material	Anodized aluminium
Standards	 

► Table Z1.2 - Control input for 'Type C' lighting systems with control

PLC and PRC series connection of 'Type C' lamps with control signal

0V to +2.1V	Light ON
+4V to +24V	Light OFF
Dimmer power light PWM (>7Khz)	Control without flickering

Time chart of light output vs control signal



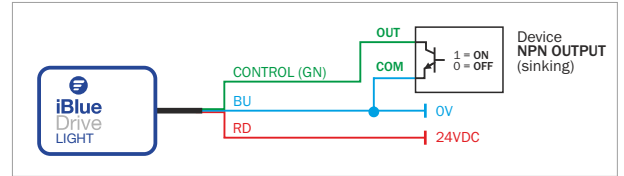
Electrical specifications

Working conditions	25°C, VIN = 24V
Connection	Direct to a NPN output
Delay from OFF to ON status	500µs
Dimmable	Yes. Regulation with a PWM signal thru ON/OFF input.*
*Recommended frequency of PWM	Over 7KHz for non-flickering output
Bias voltage in control input (Vi)	17V
Input impedance (Ri)	41.5KΩ
Duty cycle range of PWM signal	Between 0-0.8
Light output range with PWM dimmer control	From 25% to 100%

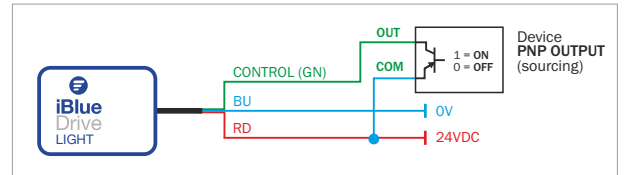
► Table Z1.3 - iBlueDrive control input wiring

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

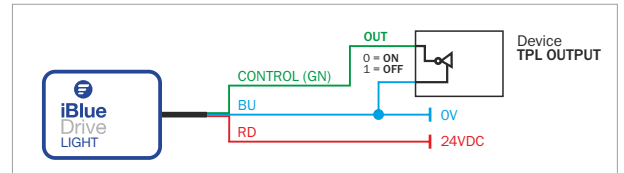
NPN wiring for strobe or ON/OFF working



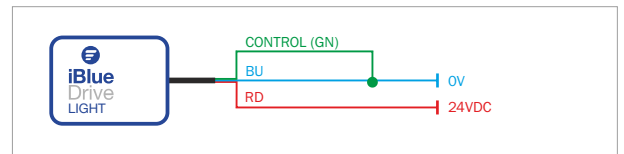
PNP wiring for strobe or ON/OFF working



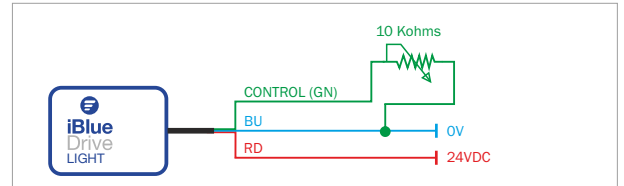
TTL wiring for strobe or ON/OFF working



Wiring for continuous mode

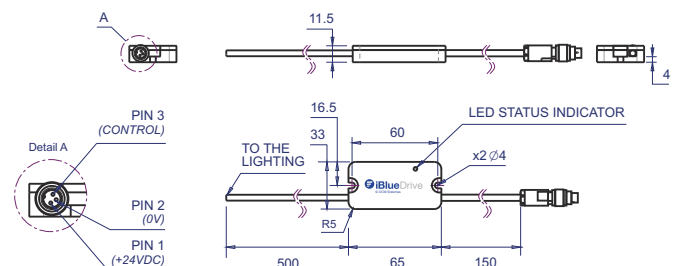


Wiring for continuous dimming mode



► Z1.4 - 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.



► Table Z2.1 - Modifiers legend

icon	Description	Code
	Narrow angle of emission = 18-19°	/AN
	Medium angle of emission = 25-26° (By default)	/AM
	Wide angle of emission = 30-32°	/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

► Table Z2.2 - Accessories legend

icon	Description	Serie
	Power cable/s	VCB, VCC, VCD Series
	Other cable/s	VCU, VCL
	Strobe controller/s	VST, VSC Series
	Polarizer filter	VPF
	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

► Table Z2.3 - iBlueDrive Accessories legend

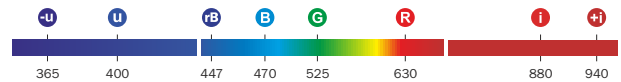
icon	Description	Serie/Product
	Accessorie to configure iBlueDrive devices: iBlueDrive Box, iBlueDrive USB	VTA0005A, VTA0007A
	iBlueDrive dimmer	VTA0010A
	iBlueDrive optocoupler	VTA0020A

► Table Z2.4 - Technical drawings legend

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

► Table Z2.5 - Colours & Wavelegths legend

icon	Wavelength	Colour	Code
	365nm	UV-	-365
	400nm	UV	-400
	447nm	ROYAL BLUE	-447
	470nm	BLUE	-470
	525nm	GREEN	-525
	630nm	RED	-630
	850nm/880nm	IR	-850/-880
	940nm	IR+	-940
		WHITE	-W00
		RGB	-RGB



► Table 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

► Table Z2.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light