

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)ITHRU	((x8)ø3)ITHRU	((x8)ø3)ITHRU	(x8)ø4)ITHRU	(x8)ø4)ITHRU	(x8)ø4)ITHRU
Connection (Type C/S)	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V
Modifiers ²						
Accessories ³						
iBlueDrive tech.	inline	inline	inline	inline	inline	N/A
iBlueDrive connection	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	N/A
iBlueDrive power cable (Not-included)	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series	N/A
iBlueDrive accessories ³						N/A

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	-850C
		3.8W	8.5W	7.6W	17W	29W	43W	-W00C
TYPE P	No 'Type P' standard LED lighting systems in this series							
TYPE S D _{max} = 1/10 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	-850S
		705mA/17W	1585mA/38W	1410mA/34W	3170mA/76W	5280mA/127W	7920mA/190W	-W00S
	900mA/22W channel	2000mA/48W channel	2000mA/48W channel	3600mA/86W channel	6000mA/144W channel	9000mA/216W channel		-RGBS
TYPE i ⁶ 		3.9W[20W/3W]	8.3W[44W/6.1W]	7.4W[39W/5.5W]	16W[48W/12W]	29W[144W/22W]	N/A	-470i
		6.2W[20W/4.3W]	13W[44W/9.1W]	12W[39W/8.2W]	26W[48W/18W]	29W[144W/22W]	N/A	-525i
		6.2W[20W/4.3W]	13W[44W/9.1W]	12W[39W/8.2W]	26W[48W/18W]	36W[116W/22W]	N/A	-630i
		9.1W[29W/4.8W]	21W[48W/11W]	24W[48W/12W]	24W[48W/16W]	29W[144W/22W]	N/A	-850i
		6.2W[20W/4.3W]	13W[44W/9.1W]	12W[39W/8.2W]	26W[48W/15W]	29W[144W/22W]	N/A	-W00i

N/A= Not available

(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.

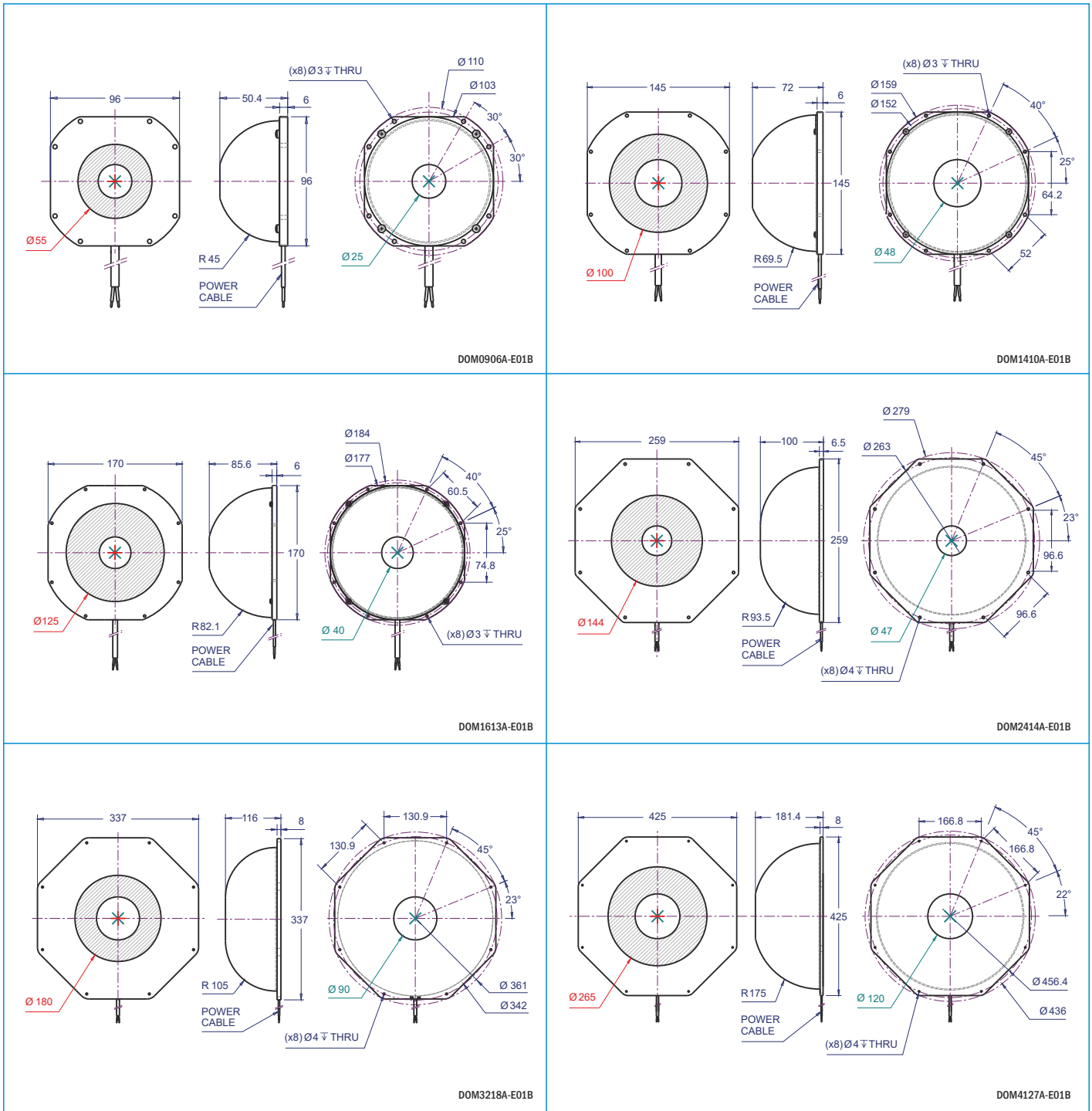
(4) iBlueDrive control input wiring specifications in additional annex Z1.2.

(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)**



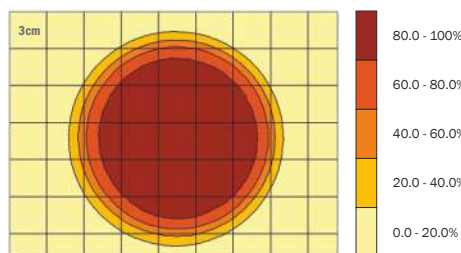
DOM SERIES



All units in millimeters, if not indicated.



Example of DOM captured image



Brightness distribution of DOM1410A-630C@5mm

DOM SERIES

Dome lights (2/2) - DOM5652B to DOMB2B1A

'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	DOM5652B	DOM5652C	DOMB2B1A
Dimensions	570x570x264	570x570x278	1309x1309x613
Bottom Ø	516	516	1100
RWD (mm)	<50	<50	<50
Weight	2400g	2400g	17500g
IP rating	IP00	IP40	IP40
Mounting holes	(x8)Ø4.5ITHRU	(x8)Ø4.5ITHRU	(x8)Ø4.5ITHRU
Connection (Type C/S)	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V	N/A	2P with flying leads. L= 180mm BN = +24V ±3% BU = 0V
Modifiers²	N/A		
Accessories³			
iBlueDrive tech.	N/A	Built-in	N/A
iBlueDrive connection	N/A	3P with flying leads. 3X1mm ² L=: 300m BN = +24VDC ±8% WH = 0V GN = Control	N/A
iBlueDrive accessories³	N/A		N/A

► Instantaneous consumption⁵ (max.)

*WT

Lighting model	DOM5652B	DOM5652C	DOMB2B1A		
TYPE C 24VDC		N/A	N/A	N/A	-365C
		N/A	N/A	N/A	-400C
		126W	N/A	190W	-470C
		126W	N/A	190W	-525C
		126W	N/A	190W	-630C
		126W	N/A	108W	-850C
		126W	N/A	190W	-W00C
TYPE P	No 'Type P' standard LED lighting systems in this series				
TYPE S D _{max} = 1/10 Ton max= 2ms		N/A	N/A	N/A	-365S
		N/A	N/A	N/A	-400S
		13860mA/333W	N/A	23750mA/570W	-470S
		13860mA/333W	N/A	23750mA/570W	-525S
		13860mA/333W	N/A	23750mA/570W	-630S
		13860mA/333W	N/A	23750mA/570W	-850S
		13860mA/333W	N/A	23750mA/570W	-W00S
TYPE i⁷ 		N/A	154W[384W/77W]	N/A	-365i
		N/A	154W[384W/77W]	N/A	-400i
		N/A	154W[384W/77W]	N/A	-470i
		N/A	154W[384W/77W]	N/A	-525i
		N/A	154W[384W/77W]	N/A	-630i
		N/A	154W[384W/77W]	N/A	-850i
		N/A	154W[384W/77W]	N/A	-W00i

N/A= Not available

(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).

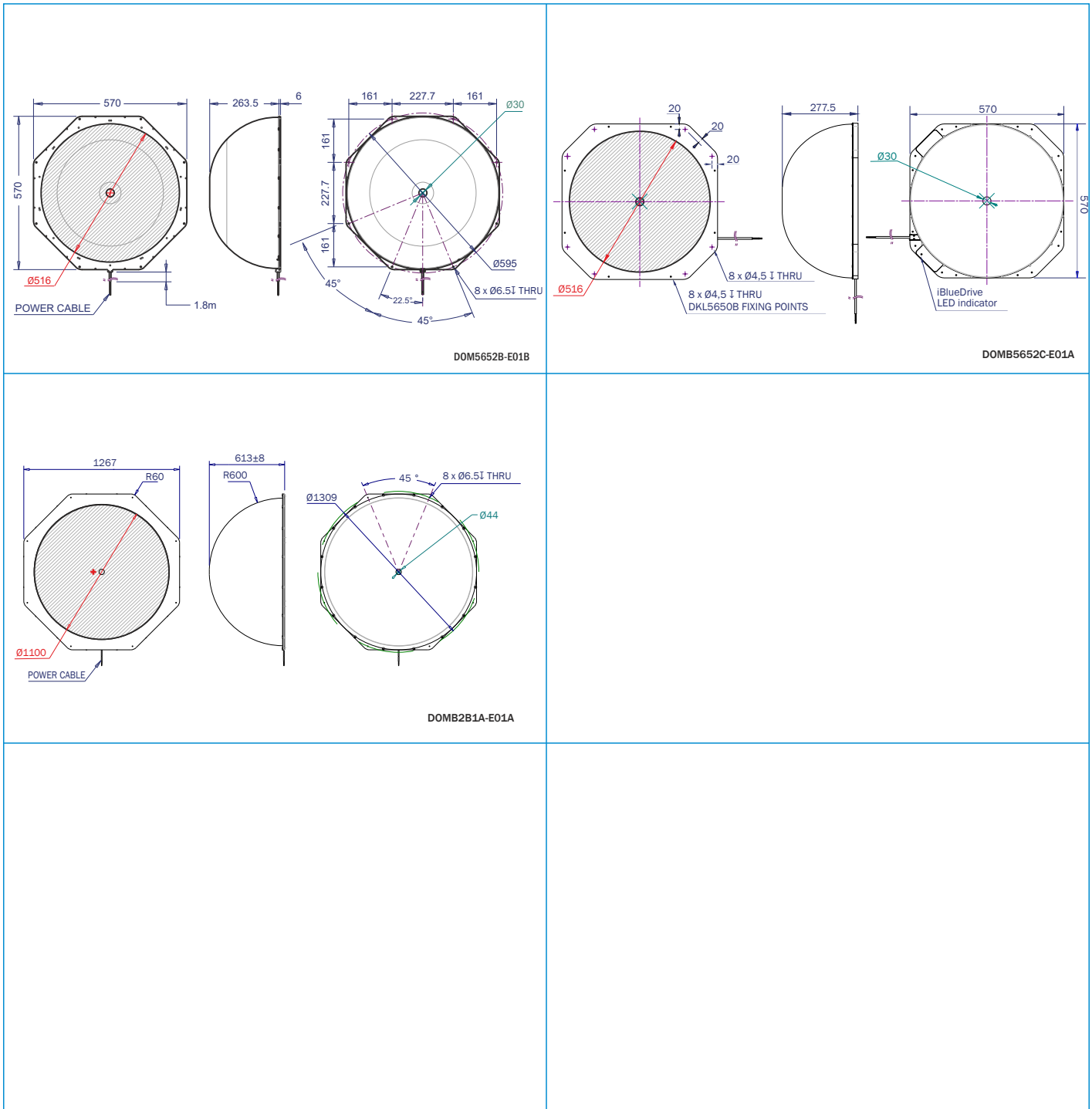
(3) Accessories are not-included. More information in accessories section.

(4) 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)**



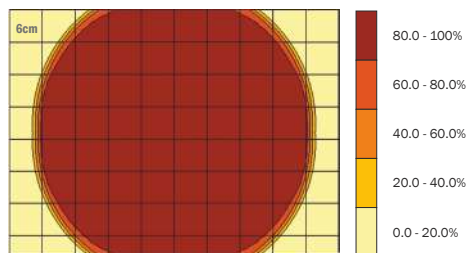
DOM SERIES



All units in millimeters, if not indicated.



Example of DOM captured image



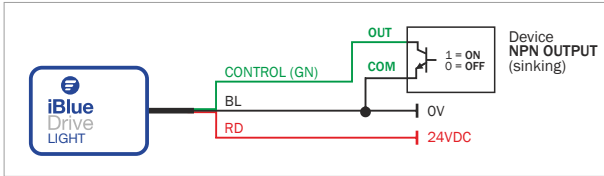
Brightness distribution of DOM5652B-W00C@5mm



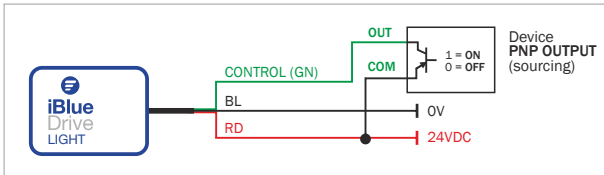
► Z2.1 - iBlueDrive control input wiring

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

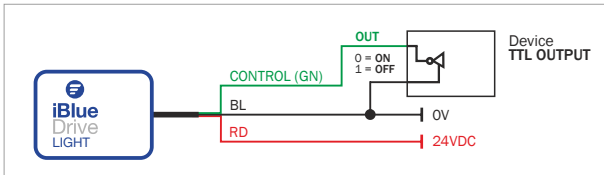
NPN wiring for strobe or ON/OFF mode



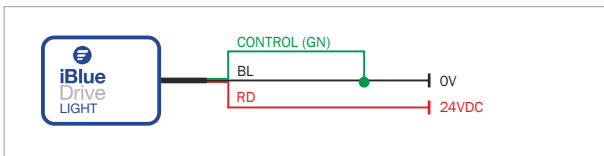
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

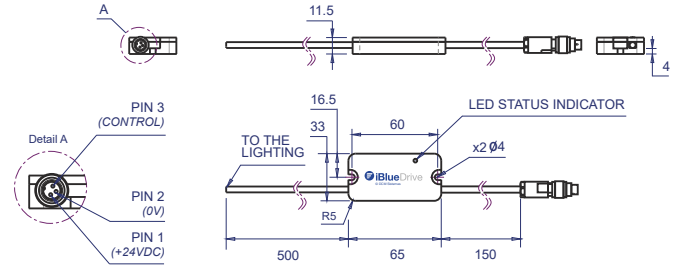


Wiring for continuous mode



► Z2.2 - 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.

► 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



► Z3.1 - Environmental Specifications

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

► Z3.2 - 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 = 2 or 4 sectors	/2S / 4S

► Z3.3 - 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

► Z3.4 - Technical drawings legend

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

► Z3.5 - 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

► Z3.6 - 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

► Z3.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light



VISION CONSULTANCY
MAKING THE UNSEEN VISIBLE

Thank you for downloading this document from
www.machine-vision-shop.com

If you have any questions, you need help composing the
right package for your application or do you want to order?

Feel free to contact us via e-mail at sales@vision-consultancy.nl or visit our webshop.

Our vision experts are happy to help you.



Natascha Overhof



Christian Cromptoets



VISION CONSULTANCY

Robert Schumandomein 2
6229 ES Maastricht
The Netherlands

+31 (0) 438 522 651

sales@vision-consultancy.nl
www.machine-vision-shop.com

Scan me to visit
[machine-vision-shop](http://machine-vision-shop.com)

