BKL23.01

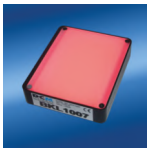
# BKL SERIES

## Area backlights (1/3) - BKL0303A to BKL1007B

Posterior diffuse lighting system usually design to measure precisely or emphasize light-dark differences by contrast that allows to have good images of object's shape.

Are used to inspect profiles and edges also used for bright fields creation.

### Technical specifications[1]

| Lighting model | BKL0303A | BKL0504B | BKL0505A | BKL0705B | BKL0707B | BKL1007B |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| Dimensions | 40x34x22 | 52x55x22 | 62x55x22 | 75x75x22 | 86x77x22 | 89x107x22 |
| Active surface | 30x30 | 40x50 | 50x50 | 50x70 | 70x70 | 70x100 |
| Weight | 45g | 85g | 91g | 185g | 196g | 255g |
| IP rating | IP40 | IP40 | IP40 | IP40 | IP40 | IP40 |
| Mounting holes | 2 x M4I6 | 4 x M4I6 | 4 x M4I6 | 6 x M4I6 | 6 x M4I6 | 6 x M4I6 |
| Connection *(Type C/S)* | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V |
| Power cable *(Not-included)* | VCB Series | VCB Series | VCB Series | VCB Series | VCB Series | VCB Series |
| Modifiers[2] | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Accessories[3] | | | | | | |
| Driver iBlueDrive[4] | inline LP | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 |
| iBlueDrive connection | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] |
| iBlueDrive power cable *(Not-included)* | VCC Series | VCC Series | VCC Series | VCC Series | VCC Series | VCC Series |
| iBlueDrive accessories[3] | | | | | | |

### Instantaneous consumption[6] (max.)

*WT

| Lighting model | | BKL0303A | BKL0504B | BKL0505A | BKL0705B | BKL0707B | BKL1007B | *WT |
|---|---|---|---|---|---|---|---|---|
| TYPE C<br>24VDC | B | 1.2W | 1.4W | 2.3W | 3.1W | 4.2W | 5.3W | -470C |
| | G | 1W | 1.8W | 1.9W | 2.4W | 3.5W | 3.8W | -525C |
| | R | 1W | 2.2W | 3.5W | 4.4W | 3.6W | 6.2W | -630C |
| | i | 1W | 2.6W | 4.8W | 2.2W | 4.3W | 4.3W | -850C |
| | W | 0.6W | 0.7W | 1.2W | 1.7W | 2.4W | 3W | -W00C |
| TYPE P | | No 'Type P' standard LED lighting systems in this series | | | | | | |
| TYPE S<br>Dmax= 1/10<br>Ton max= 2ms | B | 320mA/7.7W | 150mA/3.6W | 640mA/15W | 880mA/21W | 1280mA/31W | 1200mA/29W | -470S |
| | G | 320mA/7.7W | 150mA/3.6W | 640mA/15W | 880mA/21W | 800mA/19W | 1200mA/29W | -525S |
| | R | 160mA/3.8W | 400mA/10W | 640mA/15W | 880mA/21W | 1280mA/31W | 1600mA/38W | -630S |
| | i | 200mA/4.8W | 550mA/13W | 640mA/15W | 500mA/12W | 1100mA/24W | 1000mA/24W | -850S |
| | W | 320mA/7.7W | 205mA/4.9W | 640mA/15W | 880mA/21W | 1280mA/31W | 1600mA/38W | -W00S |
| | RGB | N/A | 600mA/14W channel | 600mA/14W channel | 600mA/14W channel | 1708mA/41W channel | 1800mA/43W channel | -RGBS |
| TYPE i[7]<br>iBlue Drive | B | 2.4W[10W/1.6W] | 3.8W[17W/2.5W] | 4.3W[20W/2.8W] | 5.8W[27W/3.6W] | 8.2W[39W/4.7W] | 10W[48W/5.8W] | -470i |
| | G | 1.9W[10W/1.2W] | 3W[17W/1.8W] | 3.4W[20W/2W] | 4.4W[27W/2.6W] | 6.2W[39W/3.6W] | 7.7W[48W/4.3W] | -525i |
| | R | 2.4W[10W/1.4W] | 5.5W[17W/3.5W] | 6.2W[20W/3.9W] | 8.4W[27W/5.2W] | 8.2W[39W/6.2W] | 13W[48W/6.7W] | -630i |
| | i | 1.9W[10W/1.4W] | 4.1W[24W/2.9W] | 6.2W[39W/4.3W] | 4.1W[24W/2.9W] | 7.7W[48W/5.3W] | 7.7W[48W/4.8W] | -850i |
| | W | 2.4W[10W/1.4W] | 3.8W[17W/3W] | 4.3W[20W/3.4W] | 5.8W[27W/4.4W] | 7.4W[39W/5.7W] | 9.1W[48W/7W] | -W00i |

N/A= Not available

(1) Environmental specifications and iconography legend in additional annex Z4.
(2) Please, consult the code before ordering (additional annex Z4.2).
(3) Accessories are not-included. More information in accessories section.
(4) inLine technical drawing and specifications in additional annex Z3.1.
(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.
(7) Values of maximum instantaneous consumption of **'Type i'** lighting systems in ***Powered mode [Strobe mode / Continuous mode]***



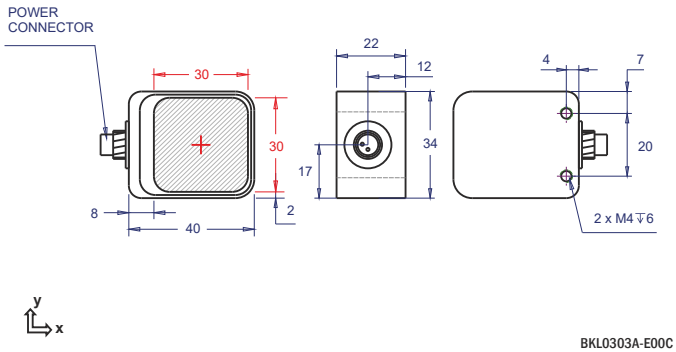
***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

DCM SISTEMES

BKL23.01

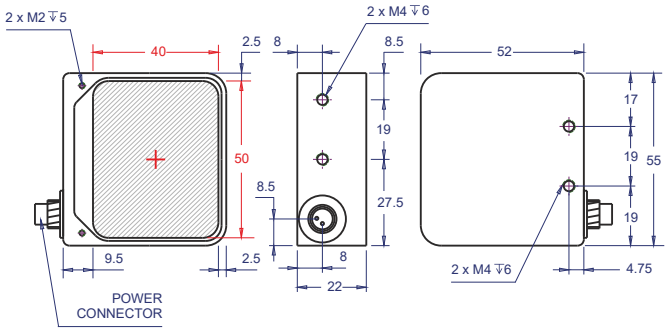
# BKL SERIES

* In the iBlueDrive version, the aereal cable integrates the inLine driver LP , more info in additional annex Z3.1



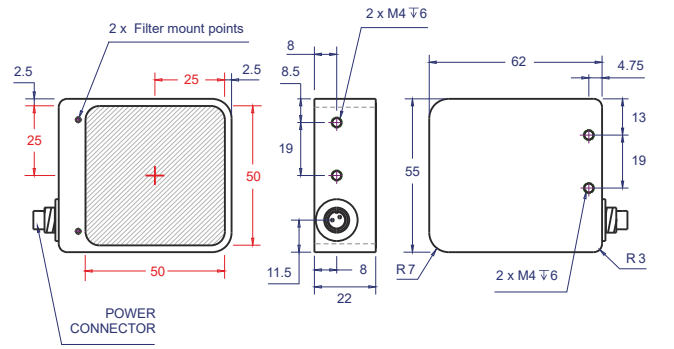

BKL0303A-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



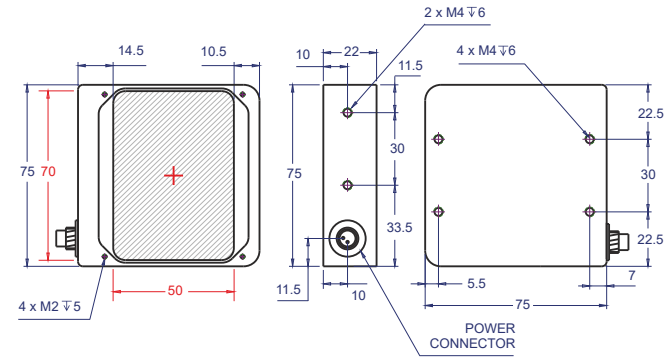

BKL0504B-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



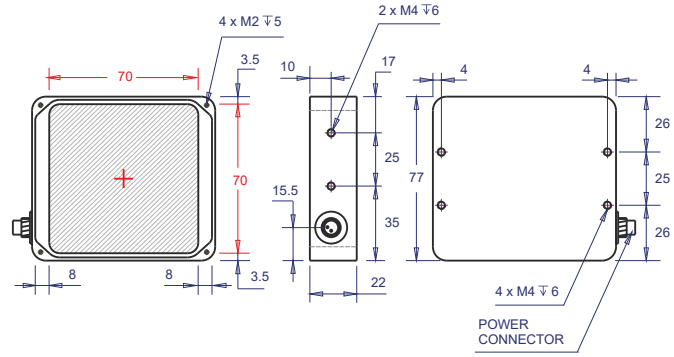

BKL0505A-E01B

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



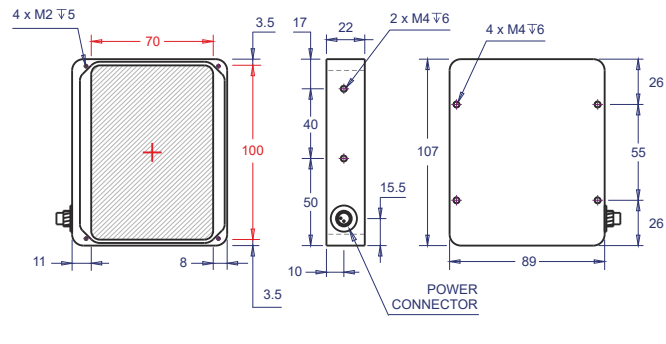

BKL0705B-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1




BKL0707B-E00C

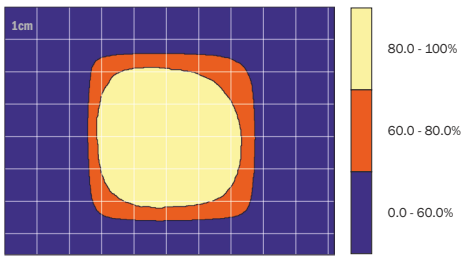
* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1




BKL1007B-E00C

All units in millimeters, if not indicated.

*Example of BKL captured image*




*Brightness distribution of BKL0505A-630C*

BKL23.01

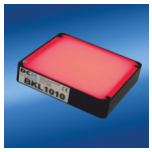
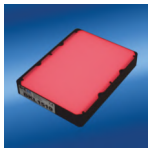
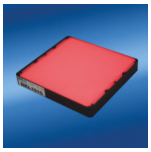
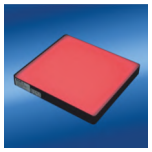
# BKL SERIES

## Area backlights (2/3) - BKL1010A to BKL2010A

Posterior diffuse lighting system usually design to measure precisely or emphasize light-dark differences by contrast that allows to have good images of object's shape.

Are used to inspect profiles and edges also used for bright fields creation.

### Technical specifications[1]

| Lighting model | BKL1010A | BKL1510A | BKL1515B | BKL1818A | BKL2005A | BKL2010A |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| **Dimensions** | 116x106x22 | 116x154x22 | 169x157x22 | 194x184x22 | 66x204x22 | 116x207x22 |
| **Active surface** | 100x100 | 100x150 | 150x150 | 180x180 | 50x200 | 100x200 |
| **Weight** | 305g | 435g | 620g | 770g | 370g | 515g |
| **IP rating** | IP40 | IP40 | IP40 | IP40 | IP40 | IP40 |
| **Mounting holes** | 6 x M4I6 | 7 x M4I6 | 7 x M4I6 | 7 x M4I6 | 7 x M4I6 | 7 x M4I6 |
| **Connection** *(Type C/S)* | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V |
| **Power cable** *(Not-included)* | VCB Series | VCB Series | VCB Series | VCB Series | VCB Series | VCB Series |
| **Modifiers[2]** | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| **Accessories[3]** | | | | | | |
| **Driver iBlueDrive[4]** | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 | inline ST00/ST01 |
| **iBlueDrive connection** | 3P aerial male inline connector<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] |
| **iBlueDrive power cable** *(Not-included)* | VCC Series | VCC Series | VCC Series | VCC Series | VCC Series | VCC Series |
| **iBlueDrive accessories[3]** | | | | | | |

### Instantaneous consumption[6] (max.)

*WT

| Lighting model | | BKL1010A | BKL1510A | BKL1515B | BKL1818A | BKL2005A | BKL2010A | |
|---|---|---|---|---|---|---|---|---|
| **TYPE C** 24VDC | B | 7.7W | 11W | 16W | 26W | 7.7W | 19W | -470C |
| | G | 6.1W | 6.5W | 9.5W | 16W | 5.4W | 12W | -525C |
| | R | 7W | 7.8W | 13W | 17W | 4.6W | 12W | -630C |
| | i | 10W | 12W | 15W | 27W | 7.6W | 19W | -850C |
| | W | 4.8W | 6.8W | 10W | 16W | 4.8W | 12W | -W00C |
| **TYPE P** | | No 'Type P' standard LED lighting systems in this series | | | | | | |
| **TYPE S** Dmax= 1/10 Ton max= 2ms | B | 1920mA/46W | 2700mA/65W | 3960mA/95W | 6480mA/156W | 1920mA/46W | 4800mA/115W | -470S |
| | G | 1920mA/46W | 2700mA/65W | 3960mA/95W | 6480mA/156W | 1920mA/46W | 4800mA/115W | -525S |
| | R | 2560mA/61W | 3600mA/86W | 5280mA/127W | 8640mA/207W | 2560mA/61W | 6400mA/154W | -630S |
| | i | 2400mA/58W | 2700mA/65W | 4620mA/111W | 6600mA/158W | 1760mA/42W | 4400mA/106W | -850S |
| | W | 2560mA/61W | 3600mA/86W | 5280mA/127W | 8640mA/207W | 2560mA/61W | 6400mA/154W | -W00S |
| | RGB | 3000mA/72W channel | 4500mA/108W channel | 6600mA/158W channel | 9000mA/216W channel | 2700mA/65W channel | 7800mA/187W channel | -RGBS |
| **TYPE i[7]** iBlue Drive | B | 16W[48W/8.2W] | 12W[96W/8W] | 24W[96W/12W] | 21W[96W/11W] | 16W[48W/8.2W] | 24W[96W/12W] | -470i |
| | G | 12W[48W/6.6W] | 10W[96W/7W] | 24W[96W/12W] | 21W[96W/11W] | 8.2W[48W/5.9W] | 24W[96W/12W] | -525i |
| | R | 19W[48W/9.7W] | 18W[96W/12W] | 21W[96W/11W] | 21W[96W/11W] | 14W[48W/9.7W] | 24W[96W/12W] | -630i |
| | i | 18W[48W/11W] | 17W[48W/11W] | 18W[96W/13W] | 24W[96W/12W] | 12W[48W/7.4W] | 24W[96W/12W] | -850i |
| | W | 16W[48W/8.9W] | 17W[48W/11W] | 21W[96W/15W] | 24W[96W/12W] | 15W[48W/7.6W] | 24W[96W/12W] | -W00i |

(1) Environmental specifications and iconography legend in additional annex Z4.
(2) Please, consult the code before ordering (additional annex Z4.2).
(3) Accessories are not-included. More information in accessories section.
(4) inLine technical drawing and specifications in additional annex Z3.1.
(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.
(7) Values of maximum instantaneous consumption of **'Type i'** lighting systems in ***Powered mode [Strobe mode / Continuous mode]***

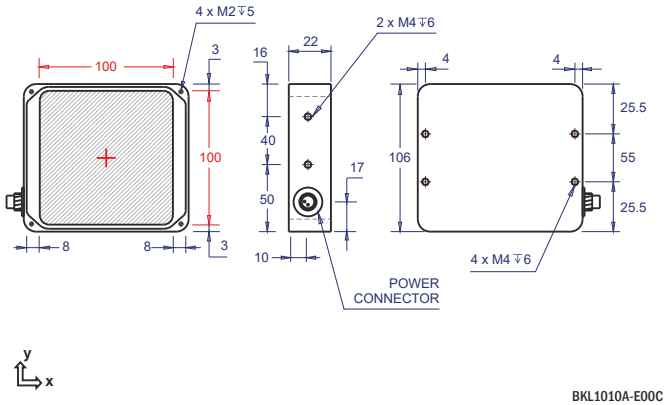


***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

BKL23.01

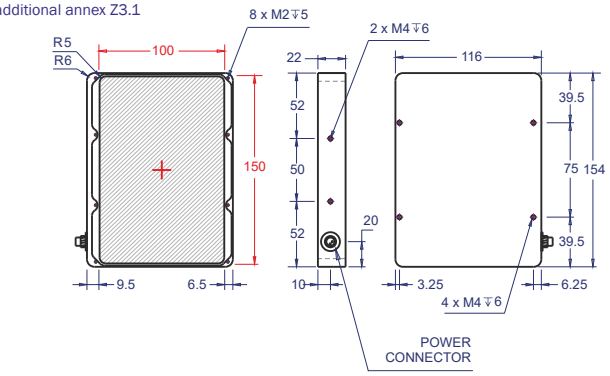
# BKL SERIES

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



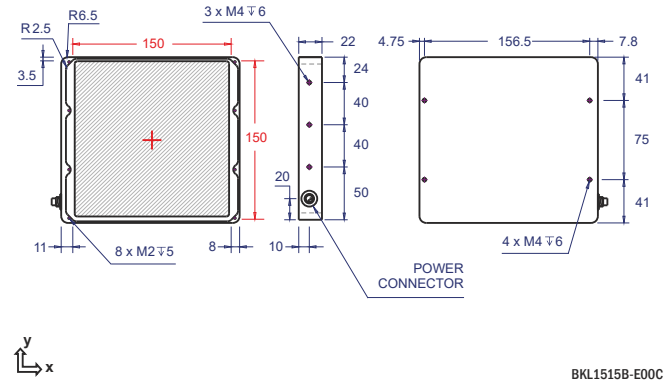

BKL1010A-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



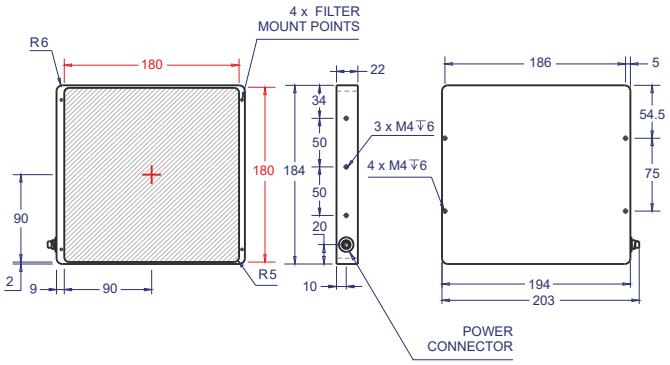

BKL1510A-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



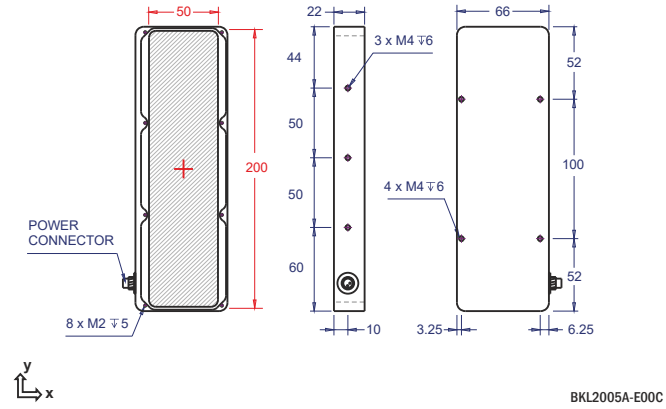

BKL1515B-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



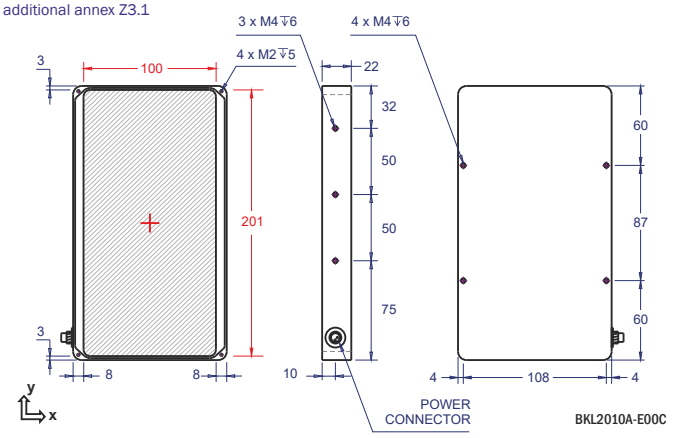

BKL1818A-E01B

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1



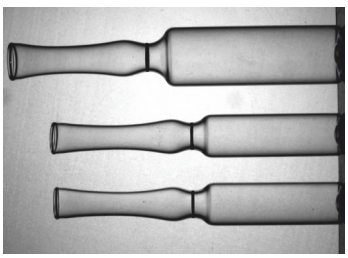

BKL2005A-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1

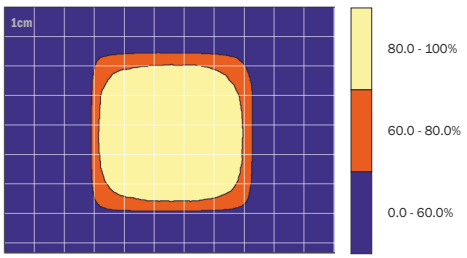



BKL2010A-E00C

All units in millimeters, if not indicated.



*Example of BKL captured image*




*Brightness distribution of BKL1010A-630C*

BKL23.01

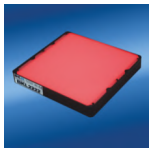
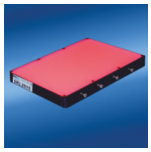
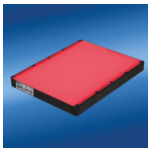
# BKL SERIES

## Area backlights (3/3) - BKL2222A to BKL4005A

Posterior diffuse lighting system usually design to measure precisely or emphasize light-dark differences by contrast that allows to have good images of object's shape.

Are used to inspect profiles and edges also used for bright fields creation.

### Technical specifications[1]

| Lighting model | BKL2222A | BKL2515B | BKL2518A | BKL3005A | BKL4005A |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| **Dimensions** | 239x227x22 | 169x257x22 | 198x255x22 | 69x304x22 | 66x404x22 |
| **Active surface** | 220x220 | 150x250 | 180x250 | 50x300 | 50x400 |
| **Weight** | 1195g | 1015g | 1125g | 585g | 692g |
| **IP rating** | IP40 | IP40 | IP40 | IP40 | IP40 |
| **Mounting holes** | 10 x M4↧6 | 10 x M4↧6 | 10 x M4↧6 | 10 x M4↧6 | 13 x M4↧6 |
| **Connection** *(Type C/S)* | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V | 2P male chassis connector<br>PIN 1 = +24V ±3%<br>PIN 2 = 0V |
| **Power cable** *(Nont-included)* | VCB Series | VCB Series | VCB Series | VCB Series | VCB Series |
| **Modifiers[2]** | IP65 | IP65 | IP65 | IP65 | IP65 |
| **Accessories[3]** | | | | | |
| **Driver iBlueDrive[4]** | inline ST00/ST01 | inline ST00/ST01 | N/A | inline ST00/ST01 | inline ST00/ST01 |
| **iBlueDrive connection** | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Contro[5]l | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | N/A | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] | 3P aerial male inline connector.<br>PIN 1 = +24V ±8%<br>PIN 2 = 0V<br>PIN 3 = Control[5] |
| **iBlueDrive power cable** *(Not-included)* | VCC Series | VCC Series | N/A | VCC Series | VCC Series |
| **iBlueDrive accessories[3]** | | | N/A | | |

### Instantaneous consumption[6] (max.)

*WT

| Lighting model | | BKL2222A | BKL2515B | BKL2518A | BKL3005A | BKL4005A | |
|---|---|---|---|---|---|---|---|
| **TYPE C** 24VDC | B | 35W | 21W | 26W | 10W | 16W | -470C |
| | G | 21W | 13W | 28W | 6.8W | 11W | -525C |
| | R | 31W | 19W | 19W | 7W | 9.5W | -630C |
| | i | 23W | 24W | 24W | 11W | 14W | -850C |
| | W | 22W | 17W | 25W | 6.2W | 10W | -W00C |
| **TYPE P** | | No 'Type P' standard LED lighting systems in this series | | | | | |
| **TYPE S** Dmax= 1/10 Ton max= 2ms | B | 8640mA/207W | 6720mA/161W | 13200mA/317W | 2460mA/59W | 3900mA/94W | -470S |
| | G | 8640mA/207W | 6720mA/161W | 13200mA/317W | 2460mA/59W | 3900mA/94W | -525S |
| | R | 11520mA/276W | 8960mA/215W | 13200mA/317W | 3280mA/79W | 5200mA/125W | -630S |
| | i | 7920mA/190W | 6710mA/161W | 8250mA/198W | 2640mA/69W | 3300mA/79W | -850S |
| | W | 11520mA/276W | 8960mA/215W | 13200mA/317W | 3280mA/69W | 5200mA/125W | -W00S |
| | RGB | 14400mA/346W channel | 10200mA/245W channel | 5940mA/143W channel | 4500mA/108W channel | N/A | -RGBS |
| **TYPE i[7]** iBlue Drive | B | 24W[96W/12W] | 24W[96W/12W] | N/A | 15W[96W/10W] | 24W[96W/12W] | -470i |
| | G | 24W[96W/12W] | 24W[96W/12W] | N/A | 15W[96W/10W] | 16W[96W/11W] | -525i |
| | R | 24W[96W/14W] | 24W[96W/12W] | N/A | 18W[48W/12W] | 24W[96W/12W] | -630i |
| | i | 20W[96W/10W] | 24W[96W/12W] | N/A | 15W[48W/10W] | 24W[96W/12W] | -850i |
| | W | 25W[96W/13W] | 24W[96W/12W] | N/A | 15W[48W/10W] | 24W[96W/12W] | -W00i |

N/A= Not available

(1) Environmental specifications and iconography legend in additional annex Z4.
(2) Please, consult the code before ordering (additional annex Z4.2).
(3) Accessories are not-included. More information in accessories section.
(4) inLine technical drawing and specifications in additional annex Z3.1.
(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.
(7) Values of maximum instantaneous consumption of **'Type i'** lighting systems in ***Powered mode [Strobe mode / Continuous mode]***

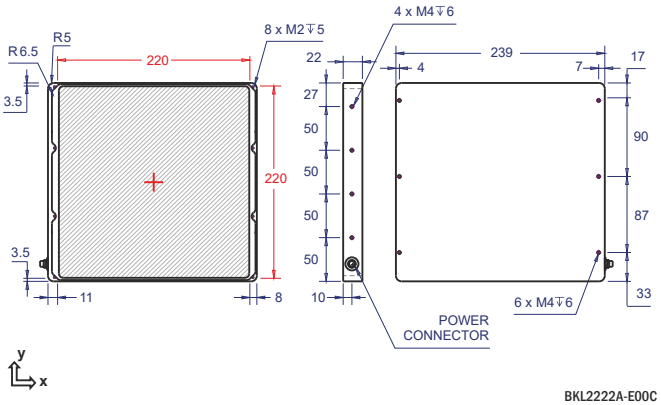


***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

BKL23.01

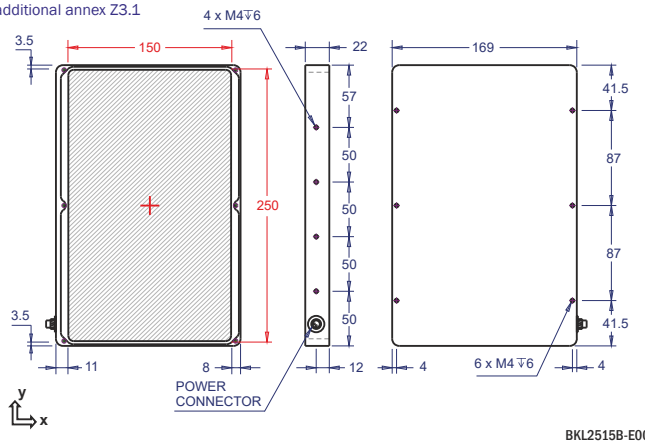
# BKL SERIES

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1

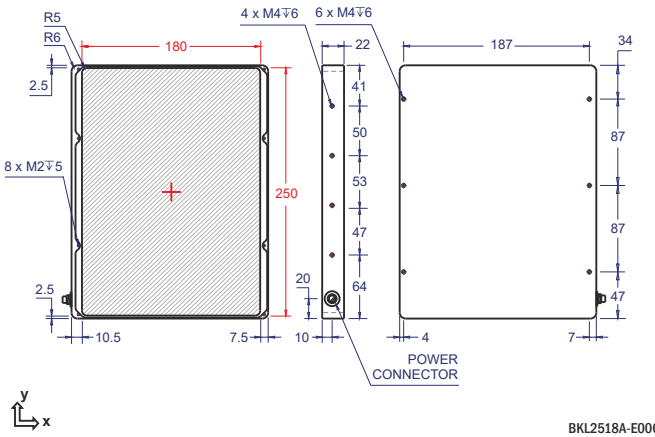



BKL2222A-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1

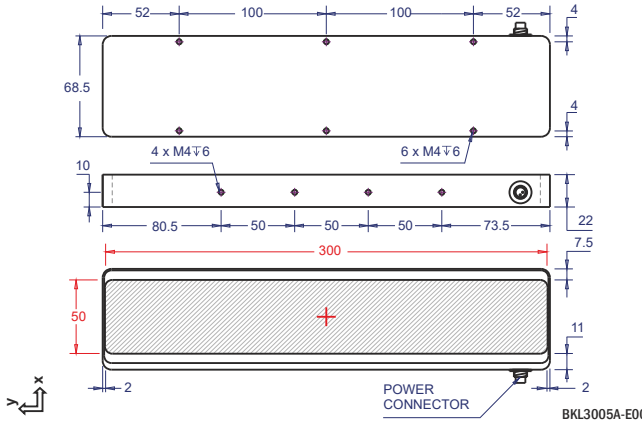



BKL2515B-E00C



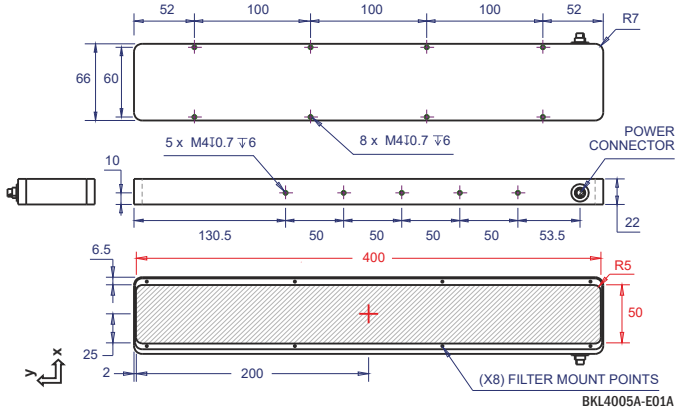

BKL2518A-E00C

* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1




BKL3005A-E00C

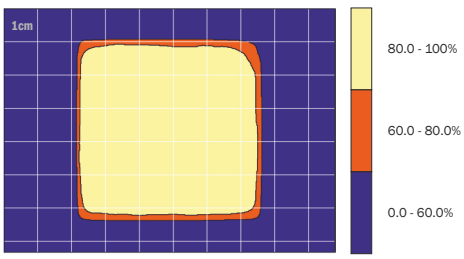
* In the iBlueDrive version, the aereal cable integrates the inLine driver ST00 or ST01 , more info in additional annex Z3.1




BKL4005A-E01A

All units in millimeters, if not indicated.

*Example of BKL captured image*

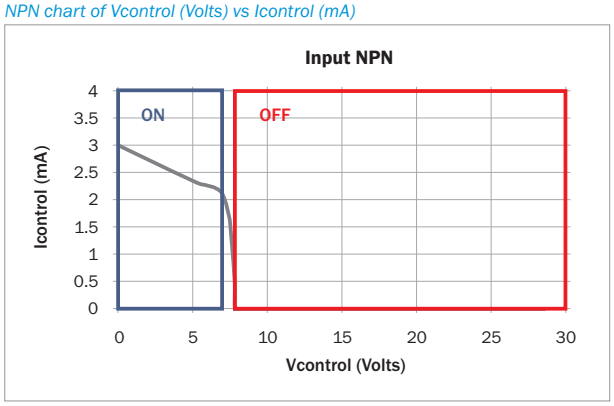



*Brightness distribution of BKL2222A-630C*

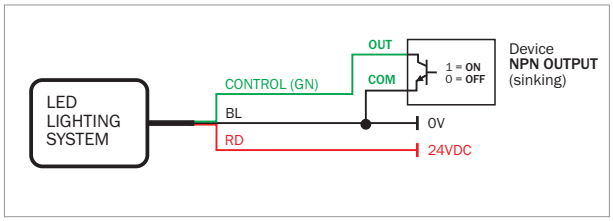
## ▶ Z1.1 - Control input NPN/PNP for 'Type C' lighting systems of DOL, PLA (PLA0513A and PLA1026A), PLC, PRC (PRC0604C and PRC0606B), PRH and PRK series.

### ■ NPN model (by default)

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



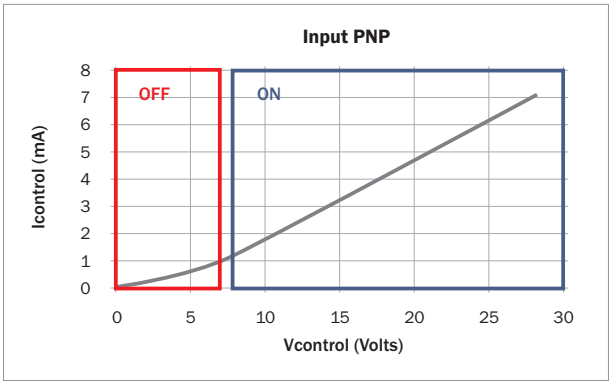

*NPN wiring for ON/OFF mode*



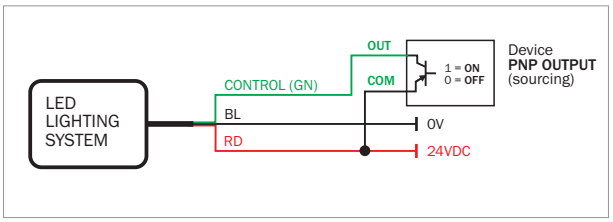

| Electrical specifications | |
|---|---|
| 0V to +6.8V | Light ON |
| +7.2V to +24V | Light OFF |
| Working conditions | 25°C, VIN = 24V |
| Connection | Direct to a NPN output |
| Delay from OFF to ON state | <5 µs |
| Delay from ON to OFF state | <5 µs |
| Bias voltage in control input | 7.9V |
| 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*

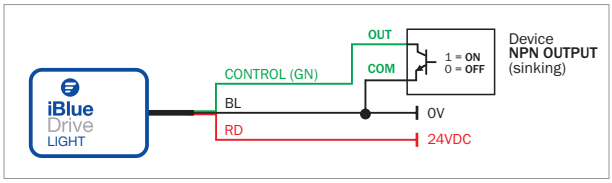



| Electrical specifications | |
|---|---|
| 0V to +6.8V | Light OFF |
| +7.2V to +24V | Light ON |
| Working conditions | 25°C, VIN = 24V |
| Connection | Direct to a PNP output |
| Delay from OFF to ON state | <5 µs |
| Delay from ON to OFF state | <5 µs |
| Bias voltage in control input | 0V |
| Input impedance | 4K Ω |
| Compliance | IEC1131-2 Type 1, 2 and 3 |

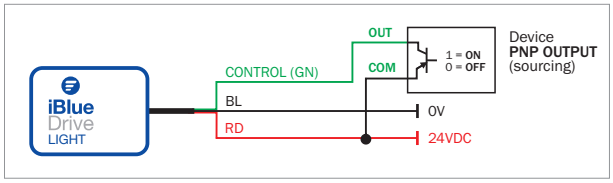
## ▶ Z2.1 - iBlueDrive control input wiring

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

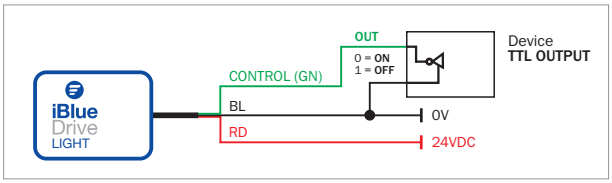
*NPN wiring for strobe or ON/OFF mode*



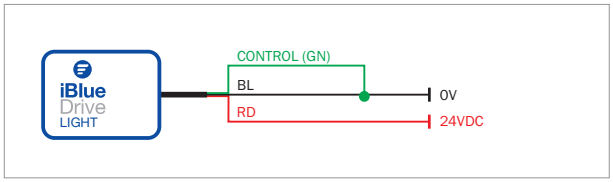

*PNP wiring for strobe or ON/OFF mode*




*TTL 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 |

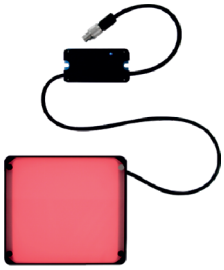
## Z3.1 - Driver inline

Driver on the aerial connector cable for iBlueDrive and continuous type equipment.

The driver is placed in the cable that connects the lighting with the connector, it contains the control electronics of the device and is used when it is not possible to integrate it inside the lighitng in both iBlueDrive and continuous types. Functionally, there is no difference between lightings with inLine or integrated driver.

The inline driver is in charge of managing the power of the device, therefore it is advisable to fix it to a metal structure to improve the heat dissipation that it produces.

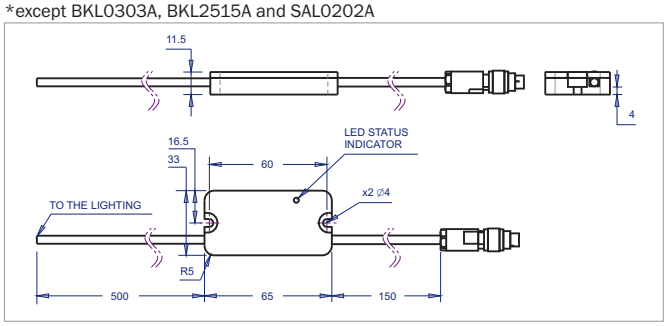
There are 6 different models of inline drivers and each of them is used with a particular lighting model, depending on its power needs or environment in which it will be used.



### *Standard (St00)*

Standard driver used in most of the equipment with external driver both in continuous type and iBlueDrive.

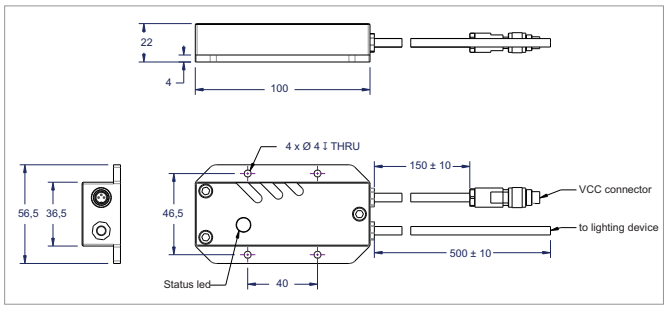
Used in ALD, ALS, ALU, ALW, AUB, BKC, BKL* , DKL, DOM0906A, DOM1410A, DOM1613A, DOM2414A, PLA, PLD, PLU, PRF (iBlueDrive) , PRY, SAC, SAL*.
*except BKL0303A, BKL2515A and SAL0202A




### *Standard IP67 (St01)*

IP67 standard driver used in most of the devices with external driver in both continuous type and iBlueDrive that require IP65/IP67 protection.

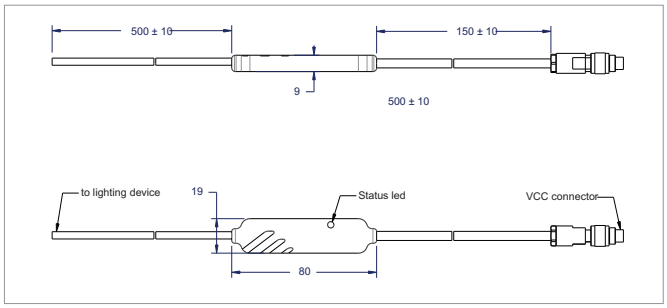
Used in BKL*, DOM0906A, DOM1410A, DOM1613A, DOM2414A, PRD0500B.
*except BKL0303A and BKL2515A




### *Low Power (LP)*

Low power driver used in most of the equipments that have external driver both in continuous type and iBlueDrive that require less power.

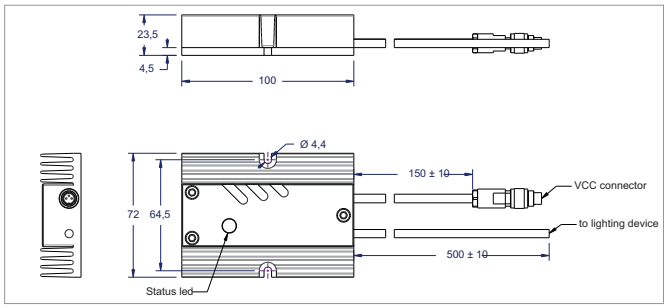
Used in PRF (continuous), BKL0303A, PRA0818A, PRD0200A and SAL0202A.




### *High power driver*

High power driver used in most of the equipments that have external driver both in continuous type and in iBlueDrive that require more power.

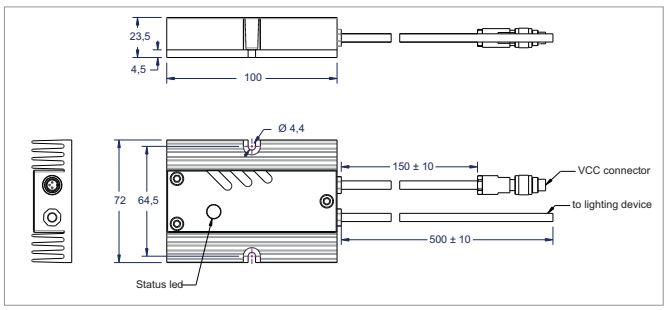
Used in DOM1613A.




### *High Power IP67(HP01)*

High power driver used in most of the equipments that have external driver both in continuous type and iBlueDrive that require more power and IP65/IP67 protection.

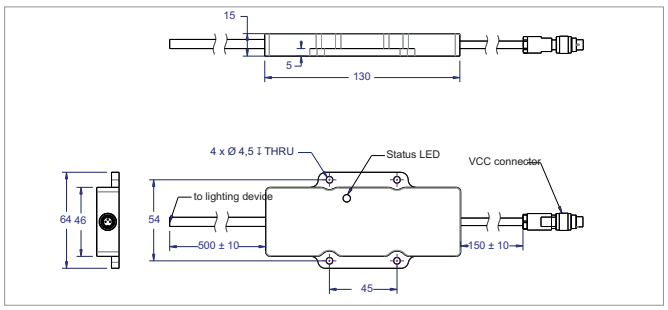
Used in DOM1613A.




### *Multisector (SE)*

Driver used in most of the equipments that have external driver in iBlueDrive type in its multisectorial versions (both RGB and 4 sectors).

Used in DKL1813A, DOM0906A y DOM1410A




**WARNING!:** In continuous and powered mode, clamp driver to a metal surface for heat dissipation. In Strobe mode is not required, but recommended.

## Z4.1 - Environmental Specifications

| | |
|---|---|
| **Max. Operating Humidity** | 85% non-condensing |
| **Operating Temperature** | 0 - 40ºC |
| **Storage Temperature** | 0 - 60ºC |
| **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 |

VISION CONSULTANCY
MAKING THE UNSEEN VISIBLE

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

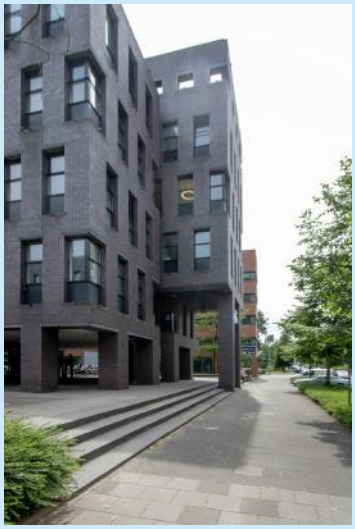
If you have any questions, you need help composing the right package for your application or do you want to order?

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 Crompvoets



**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**