PLD21.01

PLD SERIES

Direct linear lights projectors

Leds bar projector that produces a great contrast and emphasizes textures, relieves and fissures of the inspected object. It operates punctually lighting because any relief, even the smallest one, produces a shadow.

▶ **Technical specifications[1]**

Lighting model	PLD0602B	PLD1002A	PLD1302B	PLD1802A	PLD2602A
Dimensions	86x20x24	122x20x24	150x20x24	201x20x24	280x20x24
Active surface	64x16	100x16	128x16	180x16	259x16
RWD (mm)	>50	>50	>50	>50	>50
Weight	80g	98g	125g	150g	205g
IP rating	IP40[2]	IP40[2]	IP40[2]	IP40[2]	IP40[2]
Mounting holes	(x3)(x2)M4Ɩ6	(x3)(x2)M4Ɩ6	(x3)(x2)M4Ɩ6	(x3)(x2)M4˜6	(x3)(x2)M4Ɩ6
Connection *(Type C/P/S)*	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V
Power cable *(Not-included)*	VCB Series	VCB Series	VCB Series	VCB Series	VCB Series
Modifiers[3]	N/A	N/A	N/A	N/A	N/A
Accessories[4]					
iBlueDrive tech.	inline	inline	inline	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]	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]	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	VCC Series	VCC Series	VCC Series
iBlueDrive accessories[4]					

▶ **Instantaneous consumption[6] (max.)**   *WT

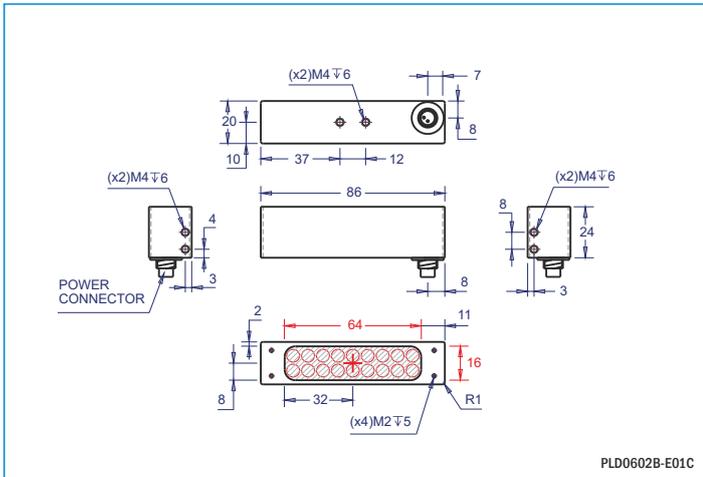|		PLD0602B	PLD1002A	PLD1302B	PLD1802A	PLD2602A	
TYPE C 24VDC	B	1.3W	2.5W	3W	4.2W	5W	-470C
	G	0.6W	1.3W	1.4W	2.2W	2.5W	-525C
	R	1.8W	3.5W	2.9W	5.8W	7W	-630C
	i	2.2W	2.2W	3.6W	3.6W	4.3W	-850C
TYPE P Dmax= ½ Ton max= 60s	·u	1.6W	3.1W	3.7W	5.3W	6.4W	-365P
	u	1.6W	3.1W	3.7W	5.3W	6.4W	-400P
	W	1.6W	3.1W	3.7W	5.3W	6.4W	-W00P
TYPE S Dmax= ¹⁄₂₀ Ton max= 2ms	·u	265mA/6.4W	530mA/13W	615mA/15W	880mA/21W	1055mA/25W	-365S
	u	265mA/6.4W	530mA/13W	615mA/15W	880mA/21W	1055mA/25W	-400S
	B	265mA/6.4W	530mA/13W	615mA/15W	880mA/21W	1055mA/25W	-470S
	G	165mA/4W	330mA/7.9W	385mA/9.2W	550mA/13W	660mA/16W	-525S
	R	265mA/6.4W	530mA/13W	615mA/15W	880mA/21W	1055mA/25W	-630S
	i	625mA/15W	625mA/15W	1045mA/25W	1045mA/25W	1255mA/30W	-850S
	W	265mA/6.4W	530mA/13W	615mA/15W	880mA/21W	1055mA/25W	-W00S
		CUS	CUS	CUS	400mA/10W channel	CUS	-RGBS
TYPE i[7] iBlue Drive	·u	1.3W[7.7W/1.1W]	2.2W[15W/1.6W]	3.2W[17W/2.5W]	3.4W[24W/2.4W]	3.9W[29W/2.8W]	-365i
	u	1.9W[7.7W/1.2W]	3.4W[15W/1.9W]	3.8W[17W/2.2W]	5.3W[24W/2.9W]	6.2W[29W/3.4W]	-400i
	B	1.8W[7.7W/1.3W]	3.1W[15W/2.2W]	3.5W[17W/2.5W]	4.8W[24W/3.4W]	5.7W[29W/3.9W]	-470i
	G	1.5W[4.1W/1.1W]	2.6W[7.7W/1.6W]	3W[8.9W/1.8W]	4.1W[12W/2.4W]	4.8W[15W/2.8W]	-525i
	R	2.6W[7.7W/1.9W]	4.8W[15W/3.4W]	5.5W[17W/3.8W]	7.7W[24W/5.3W]	9.1W[29W/6.2W]	-630i
	i	4.4W[15W/2.6W]	4.4W[15W/2.6W]	7.1W[24W/4.1W]	7.1W[24W/4.1W]	8.4W[29W/4.8W]	-850i
	W	1.9W[7.7W/1.2W]	3.4W[15W/1.9W]	3.8W[17W/2.2W]	5.3W[24W/2.9W]	6.2W[29W/3.4W]	-W00i

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).
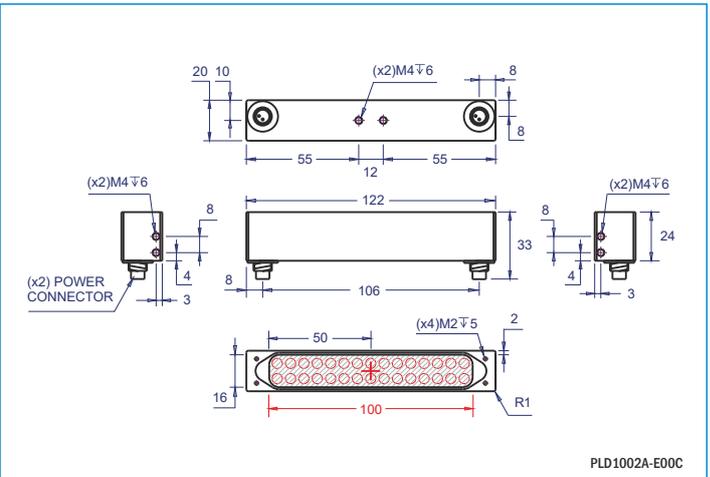
(4) Accessories are not-included. More information in accessories section.
(5) iBlueDrive control input wiring specifications in additional annex Z1.2.
(6) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.
(7) Values of maximum instantaneous consumption of '**Type i**' lighting systems in *Powered mode [Strobe mode / Continuous mode]*
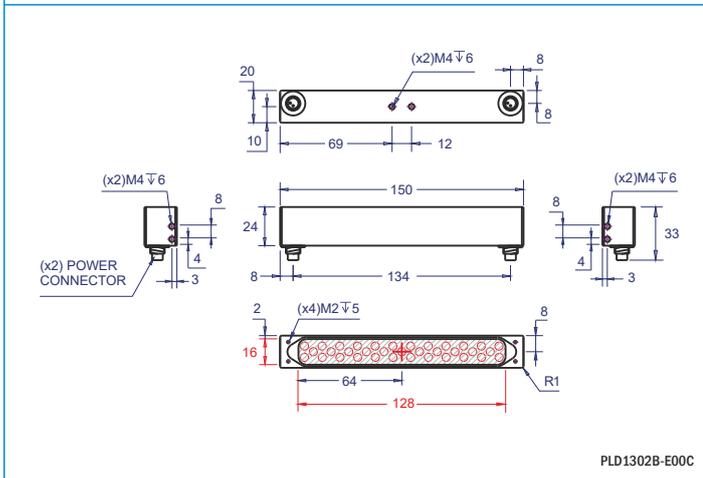
*ORDER REFERENCE = Lighting model + WT / MODIFIERS
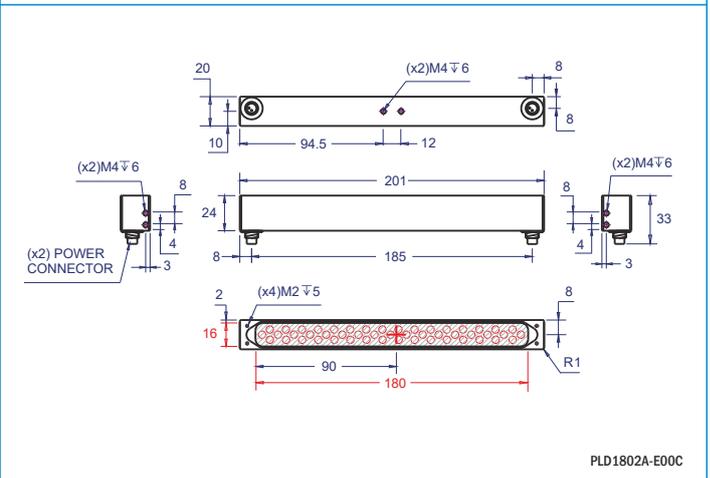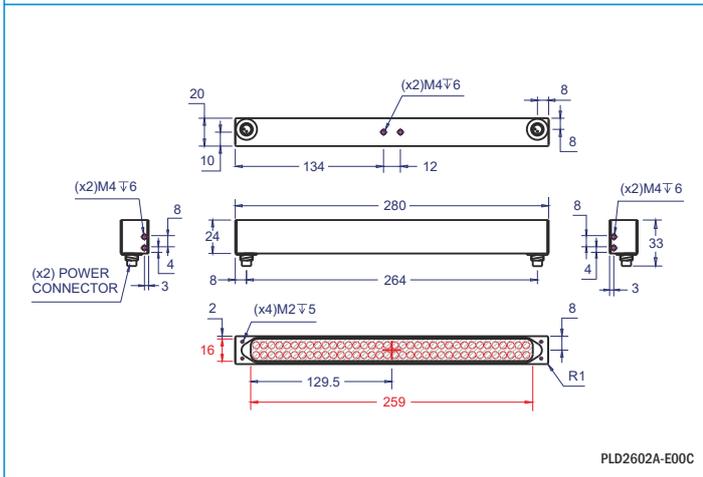
DCM sistemes

PLD SERIES

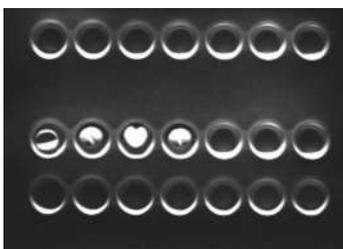PLD0602B-E01C

PLD1002A-E00C

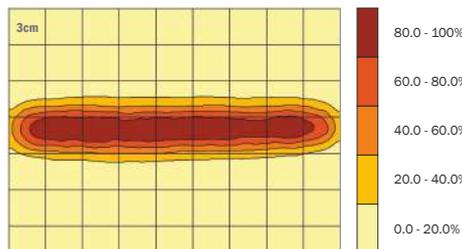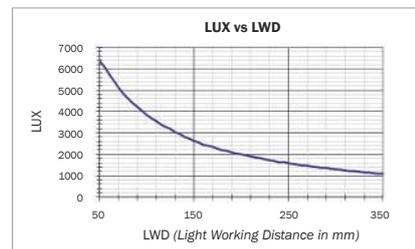PLD1302B-E00C

PLD1802A-E00C

PLD2602A-E00C

All units in millimeters, if not indicated.

Example of PLD captured image
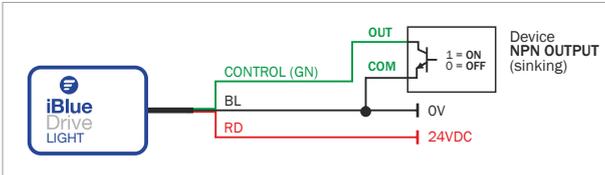

Brightness distribution of PLD2602A-630C@50mm
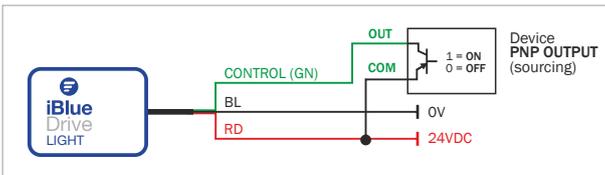

PLD2602A-630C light intensity.

▶ 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.
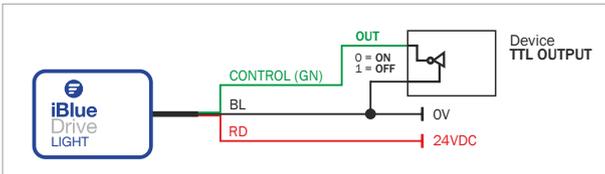
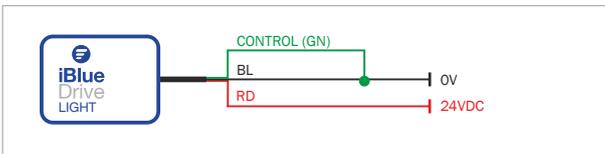*NPN wiring for strobe or ON/OFF mode*

PNP wiring for strobe or ON/OFF mode

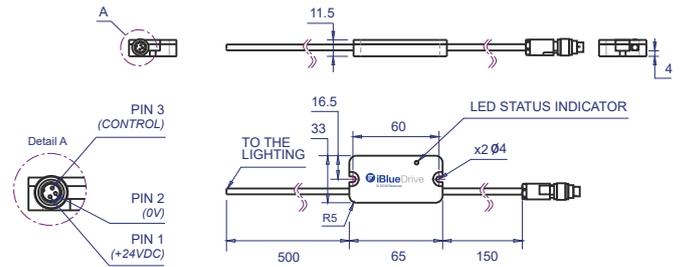*TTL wiring for strobe or ON/OFF mode*

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 - 40ºC
Storage Temperature	0 - 60ºC
Housing material	Anodized aluminium
Standards	CE ⊠ RoHS COMPLIANT

▶ Z3.2 - Modifiers legend

icon	Description	Code
N	Narrow angle of emission	/AN
M	Medium angle of emission *(default)*	/AM
W	Wide angle of emission	/AW
O	Oval angle of emission = 23-24° (x) 17-18° (y)	/AO
D	Diffuse emission	/AD
	Polarizer filter	/FPL
	Diffuser filter	/FDR
H	Backlight hole of 42mm	/H
H1	Backlight hole of 65mm	/H1
CC1	Dome hole of 46mm	/CC1
CC2	Dome hole of 40mm	/CC2
Ipxx	IP Rating = IPxx = Ip65 / IP67	/65 /67
PNP	PNP input model	/P
f1	50mm focal Length	/F1
f2	150mm focal Length	/F2
f3	Infinite focal Length	/F3
XS	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	VCFx
	Collimater filter on **y** axis	VCFy
	Collimater filter on **xy** axis	VCFxy
	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
U	365nm	UV-	-365
U	400nm	UV	-400
B	470nm	BLUE	-470
G	525nm	GREEN	-525
R	630nm	RED	-630
i	850nm/880nm	IR	-850/-880
W		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

Polytec