PLC SERIES

COMPACT LINEAR PROJECTORS

Linear projector with high illumination for larger areas, longer distances and better performances. This system produces great contrast and emphasizes textures, relieves and fissures that the lighted object could have.

TECHNICAL DATA	PLC0307A	PLC0615A	PLC1231A
DIRECT LIGHT			
DIMENSIONS	**87x40x48**	**165x40x48**	**321x40x48**
LEDs NUMBER	**3**	**6**	**12**
RWD (mm)	**>50**	**>50**	**>50**
WEIGHT	**220g**	**400g**	**775g**
IP RATING	**IP50**	**IP50**	**IP50**
MOUNTING HOLES	(x2)M4↧6	(x2)M4↧6	(x4)M4↧6
CONNECTION (cable non-included)	3P male chassis connector. PIN 1 = **+24V** PIN 2 = **0V** PIN 3 = **CONTROL**[1]	3P male chassis connector. PIN 1 = **+24V** PIN 2 = **0V** PIN 3 = **CONTROL**[1]	3P male chassis connector. PIN 1 = **+24V** PIN 2 = **0V** PIN 3 = **CONTROL**[1]
MODIFIERS[2]	NO	NO	NO
ACCESSORIES[3]	VCC · POLARIZER · DIFFUSER	VCC · POLARIZER · DIFFUSER	VCC · POLARIZER · DIFFUSER
MAX. OPERATING HUMIDITY	85% non-condensing	85% non-condensing	85% non-condensing
OPERATING T°	0 - 40ºC	0 - 40ºC	0 - 40ºC
STORAGE T°	0 - 60ºC	0 - 60ºC	0 - 60ºC
HOUSING MATERIAL	Anodized aluminium	Anodized aluminium	Anodized aluminium

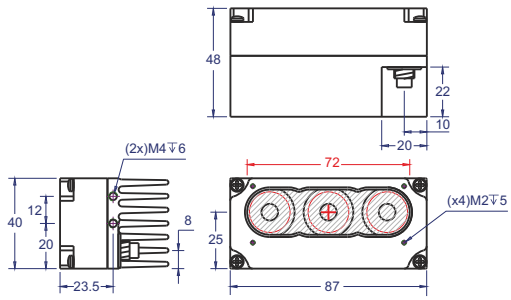
(1) Extended information of Control Input characteristics in the additional information section, table C1.1.
(2) Optional modifications on the standard lighting system from manufacturation.
(3) Accessories are non-included. More information in accessories section.

INSTANTANEOUS CONSUMPTION (Max.)		Lighting model*			WT*
		PLC0307A	PLC0615A	PLC1231A	
TYPE C (24VDC)	U	5W	10W	20W	-400C
	B	5W	10W	20W	-470C
	G	5W	10W	20W	-525C
	R	5W	10W	20W	-630C
	i*	5W	9W	18W	-850C
	W	5W	10W	20W	-W00C
TYPE P		No type P standard LED lighting systems on this series.			
TYPE S		No type S standard LED lighting systems on this series.			

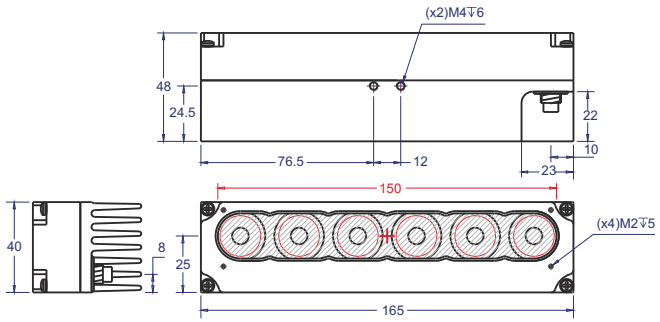
Take note that consumption table is for guidance. To refer to real values, consult product label when purchasing. | ***ORDER REFERENCE = Lighting model + WT**

-U UV- (365nm) U UV (400nm) B BLUE (470nm) G GREEN (525nm) R RED (630nm) i* IR (850nm) +i IR+ (940nm) W WHITE

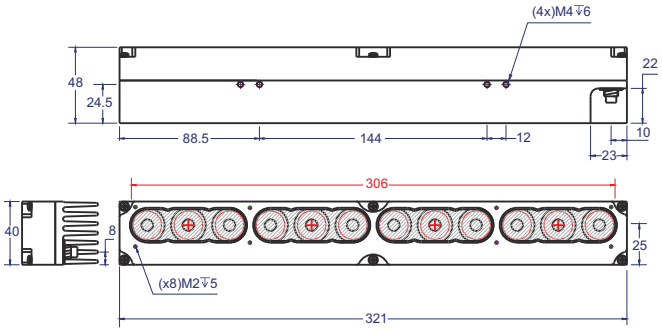
TECHNICAL DRAWINGS (All units in millimeters, if not indicated)



PLC0307A-E00B



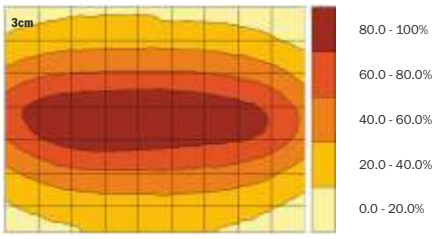
PLC0615A-E00B



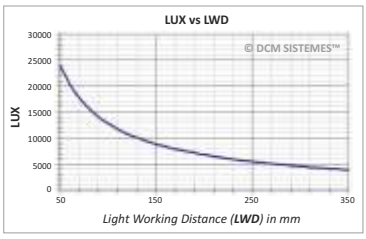
PLC1231A-E00B

ADDITIONAL INFORMATION

Example of PLC captured image



Brightness distribution of PLC1231A-630C@350mm



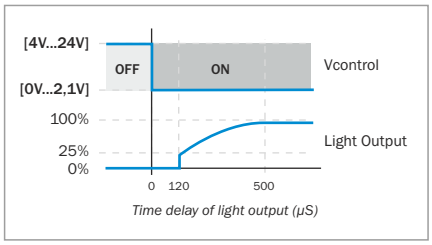
PLC1231A-630C light intensity.

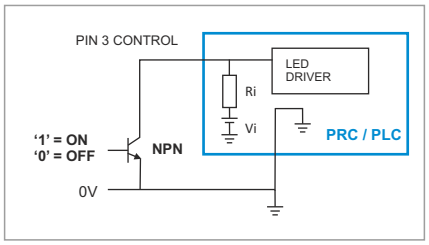
Optical axis
Viewing window dimensions
Light emission center
Lighting surface dimensions
Lighting elements

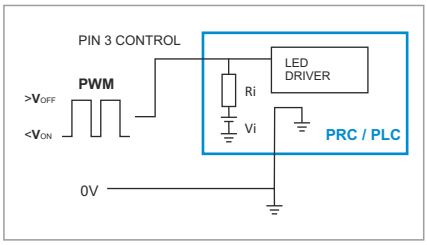
C1.1. CONTROL INPUT

PLC and PRC Series are monochromatic lamps with control. Here are the control input characteristics for connection.

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

C1.2. ELECTRICAL CHARACTERISTICS for CONTROL INPUT*

- Ready to connect directly to a NPN output.
- Delay from OFF to ON State = 500uS.
- Dimmable, 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) = 41,5KOhm
- Duty cycle range of PWM signal applied to Control input between 0 - 0.8
- Light output range with PWM dimmer control from 25% to 100%

**Working conditions: 25°C, VIN= 24V*