PRK19.01

PRK SERIES

Harsh environment washdown HP projectors

The IP69K high-powered projector is made of 316L stainless steel. It is specially designed to operate in food applications preventing material accumulation (including bacterium). Adapted to environments with constraints, submitted to foam and high pressure cleaning. Meets FDA and IP69K compliancy.

Technical specifications[1]

Lighting model	PRK0608A
	
Dimensions	73x73x24.8
Active surface	32x32
RWD (mm)	>50
Weight	673g
IP rating	IP69K
Mounting holes	(x2)M4 x 6
Modifiers[3]	PNP
Accessories[4]	NO
iBlueDrive tech.	Built-in
iBlueDrive connection	RD = +24V ±8% BK = 0V GN = Control
iBlueDrive power cable	Pre-cabled with flying leads 2X0.5mm² + 1x0.2mm² Length=5m
iBlueDrive accessories[4]	

Instantaneous consumption[5] (max.)

*WT

Lighting model		PRK0608A	
TYPE C		No 'Type C' standard LED lighting systems in this series	
TYPE P		No 'Type P' standard LED lighting systems in this series	
TYPE S		No 'Type S' standard LED lighting systems in this series	
TYPE i[6] iBlue Drive	u	13W[48W/6.5W]	-400i
	B	13W[48W/6.5W]	-470i
	G	13W[48W/6.5W]	-525i
	R	13W[34W/6.5W]	-630i
	i	13W[48W/6.5W]	-850i
	W	13W[48W/6.5W]	-W00i

N/A= Not available CUS = Custom

(1) Environmental specifications and iconography legend in additional annex Z1.4 and Z2 respectively.

(2) Control input specifications of PRK series in additional annex Z1.1.

(3) Prior to manufacturing optional modifications in standard lighting systems including angles of emission of PRH series projectors. If not indicated, default angle will be /AM. Please, consult the code to select a different angle of emission or another optional modification before ordering (additional annex Z2.1).

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

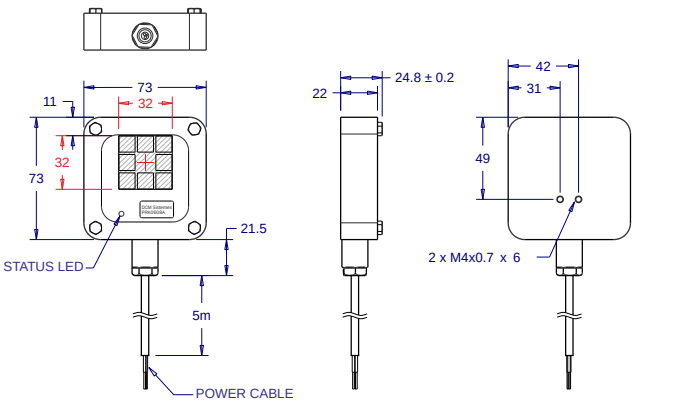
(5) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.

(6) Values of maximum instantaneous consumption of 'Type i' lighting systems in *Powered mode [Strobe mode / Continuous mode]*

*ORDER REFERENCE = Lighting model + WT / MODIFIERS

PRK19.01

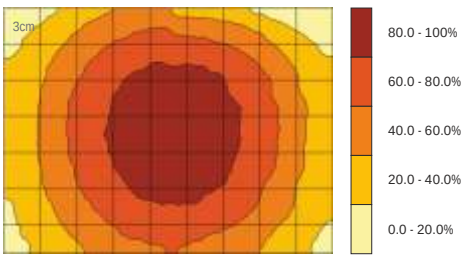
PRK SERIES



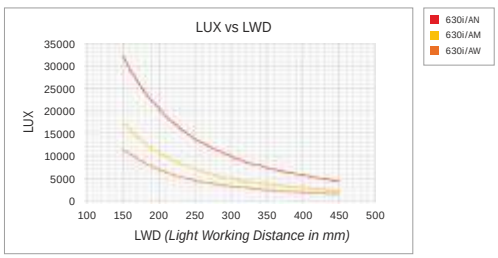
PRK0608A-E01A

All units in millimeters, if not indicated.

Example of PRK captured image



Brightness distribution of PRK0608A-630i/AW@350mm

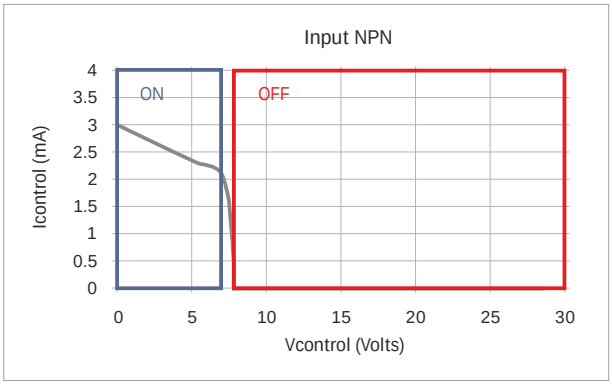


PRK0608A-630i light intensity.

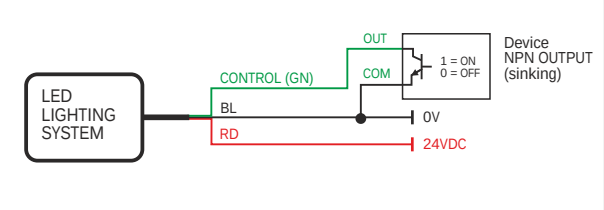
▶ Z1.1 - Control input NPN/PNP for 'Type C' lighting systems of DOL, PLA (PLA0513A and PLA1026A), PLC, PRC (PRC0604C and PRC0606B), PRH and PRK series.

■ NPN model (by default)

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



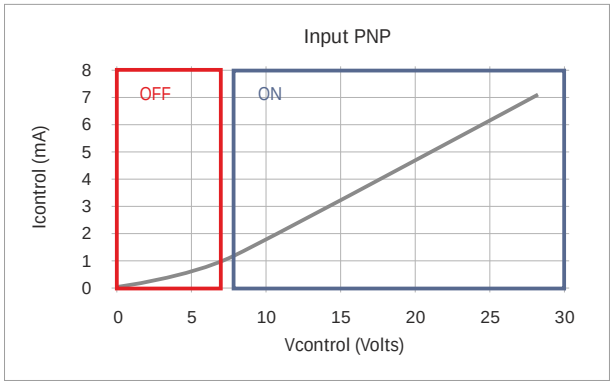
NPN wiring for ON/OFF mode



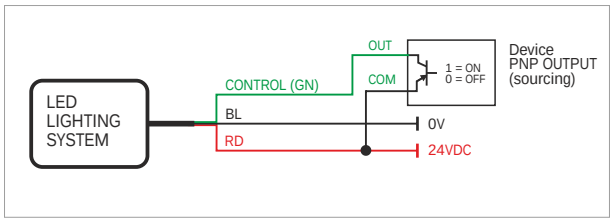
Electrical specifications	
0V to +6.8V	Light ON
+7.2V to +24V	Light OFF
Working conditions	25ºC, VIN = 24V
Connection	Direct to a NPN output
Delay from OFF to ON state	<5 µs
Delay from ON to OFF state	<5 µs
Bias voltage in control input	7.9V
Input impedance	7K9 ?

■ PNP model (lighting systems with PNP modifier =/P)

PNP chart of Vcontrol (Volts) vs Icontrol (mA)



PNP wiring for ON/OFF mode

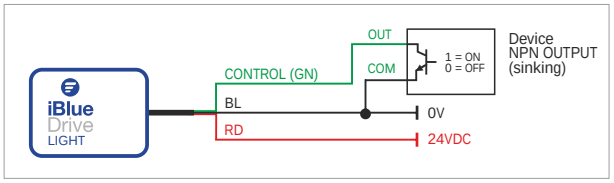


Electrical specifications	
0V to +6.8V	Light OFF
+7.2V to +24V	Light ON
Working conditions	25ºC, VIN = 24V
Connection	Direct to a PNP output
Delay from OFF to ON state	<5 µs
Delay from ON to OFF state	<5 µs
Bias voltage in control input	0V
Input impedance	4K ?
Compliance	IEC1131-2 Type 1, 2 and 3

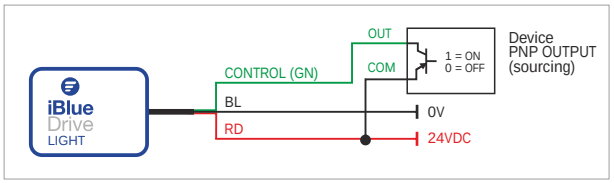
▶ Z1.2 - iBlueDrive control input wiring

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

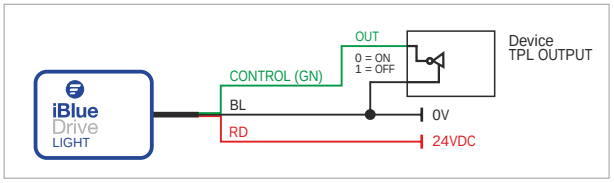
NPN wiring for strobe or ON/OFF mode



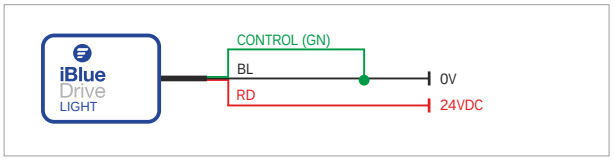
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

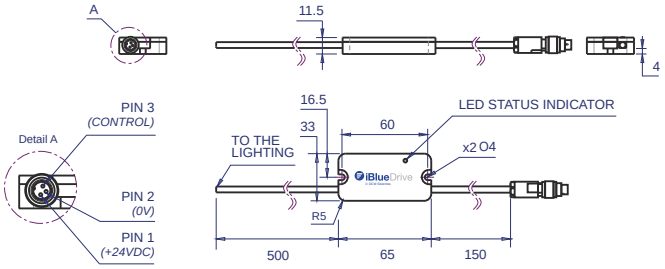


Wiring for continuous mode



▶ Z1.3 - 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.

Z1.4 - Environmental Specifications

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

Z2.1 - Modifiers legend

icon	Description	Code
	Narrow angle of emission	/AN
	Medium angle of emission *(By default)*	/AM
	Wide angle of emission	/AW
	Oval angle of emission = 23-24º (x) 17-18º (y)	/AO
	Diffuse emission	/AD
	Polarizer filter	/FPL
	Diffuser filter	/FDR
CC1	Dome hole of 46mm	/CC1
CC2	Dome hole of 40mm	/CC2
IP67	IP Rating = IP67	/67
PNP	PNP input model	/P
f1	50mm focal Length	/F1
f2	150mm focal Length	/F2
f3	Infinite focal Length	/F3

Z2.2 - 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

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

Z2.4 - Technical drawings legend

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

Z2.5 - 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

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

Z2.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light