










PRK SERIES

Harsh environment washdown HP projectors

PRK23.02

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 specifications¹

Lighting model	PRK0608A
 	
Dimensions	73x73x24.8
Active surface	32x32
RWD (mm)	>50
Weight	673g
IP rating	IP69K
Mounting holes	2 x M4I6
Modifiers ²	    
Accessories ³	
Driver iBlueDrive	Built-in
iBlueDrive connection	3P flying leads 2X0.5mm ² + 1x0.2mm ² L=5000mm RD = +24V ±8% BK = 0V GN = Control ⁴
iBlueDrive accessories ³	

► Instantaneous consumption⁵ (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 		13W[48W/6.5W]	-400i
		13W[48W/6.5W]	-470i
		13W[48W/6.5W]	-525i
		13W[34W/6.5W]	-630i
		13W[48W/6.5W]	-850i
		13W[48W/6.5W]	-W00i

(1) Environmental specifications and iconography legend in additional annex Z4.

(2) Control input specifications of NPN / PNP in additional annex Z1.1.
If not indicated default angle of emission will be /AM.

Please, consult the code to select a different angle of emission before ordering (additional annex Z4.2).

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

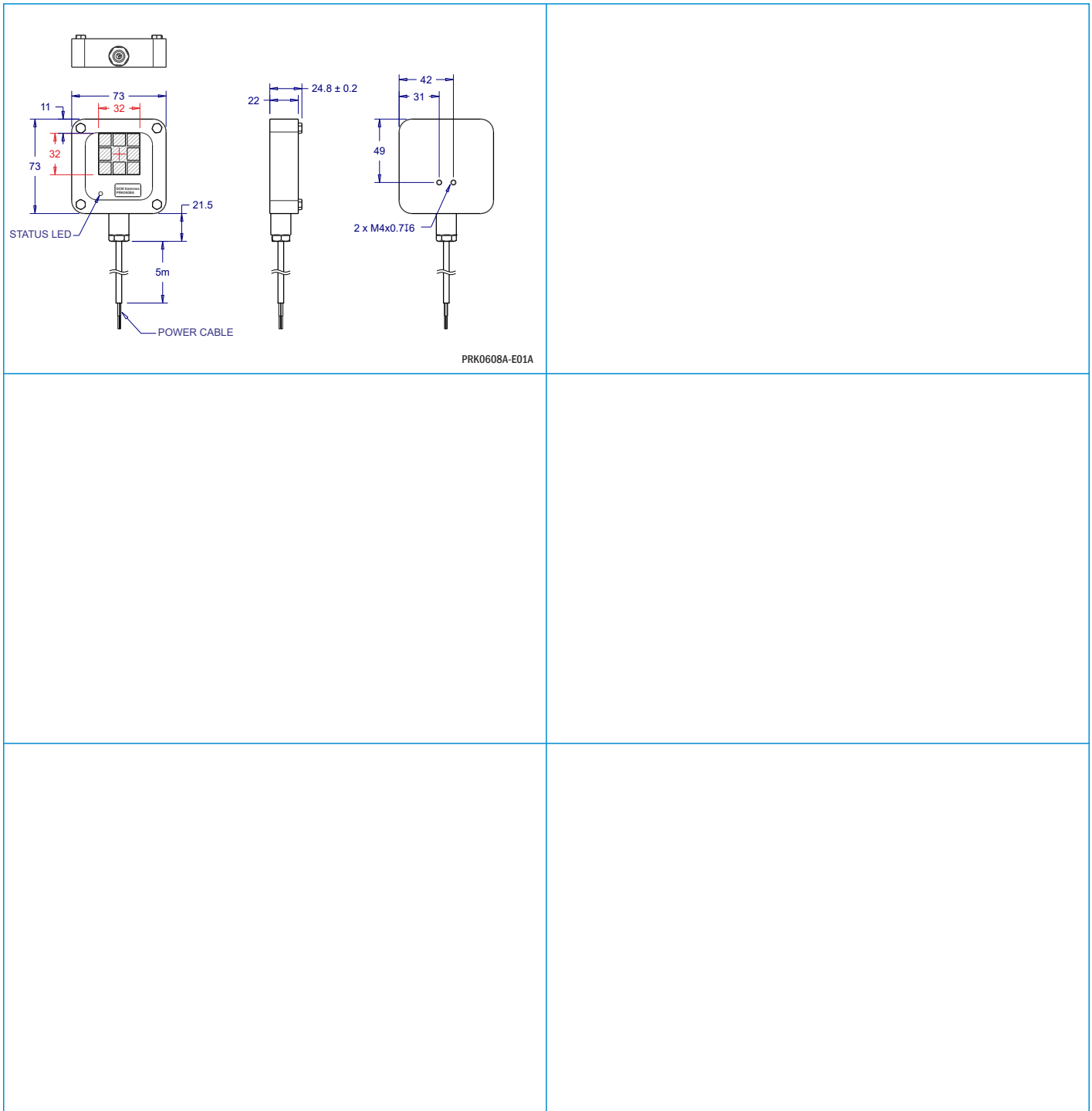
(4) iBlueDrive control input wiring specifications in additional annex Z2.1.

(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]**



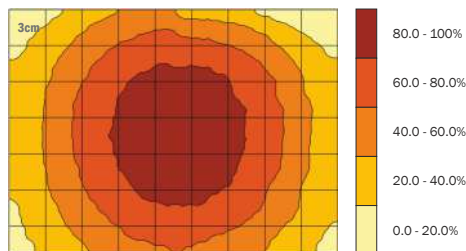
PRK SERIES



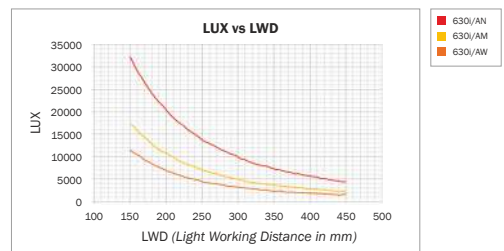
All units in millimeters, if not indicated.



Example of PRK captured image



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

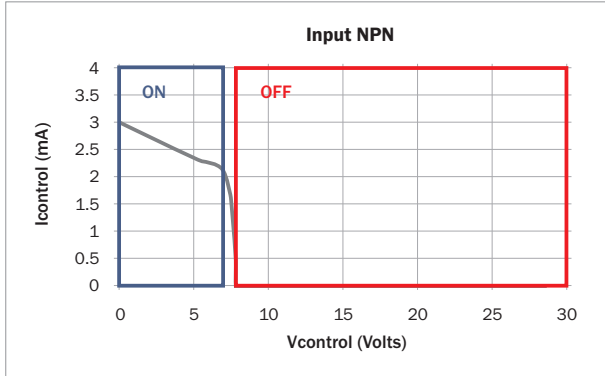


PRK0608A-630i light intensity.

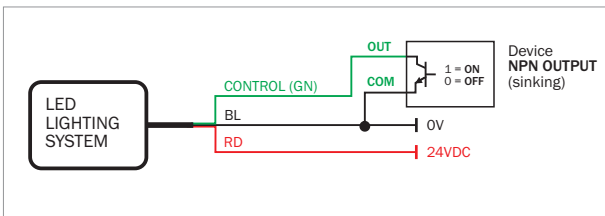
► Z1.1 - Control input NPN/PNP for 'Type C' lighting systems of DOL, PLA (PLA0513A and PLA1026A), PLC, PRC (PRC0604C and PRC0606B), PRH and PRK series.

■ NPN model (by default)

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



NPN wiring for ON/OFF mode

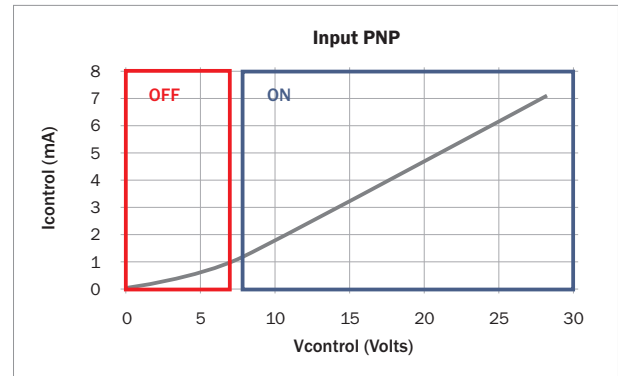


Electrical specifications

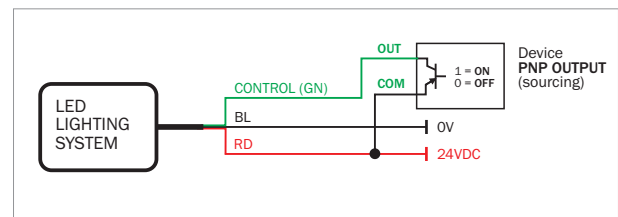
0V to +6.8V	Light ON
+7.2V to +24V	Light OFF
Working conditions	25°C, VIN = 24V
Connection	Direct to a NPN output
Delay from OFF to ON state	<5 µs
Delay from ON to OFF state	<5 µs
Bias voltage in control input	7.9V
Input impedance	7K9 Ω

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

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



PNP wiring for ON/OFF mode



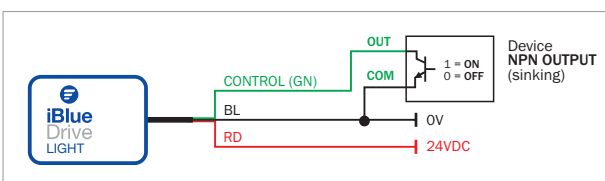
Electrical specifications

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

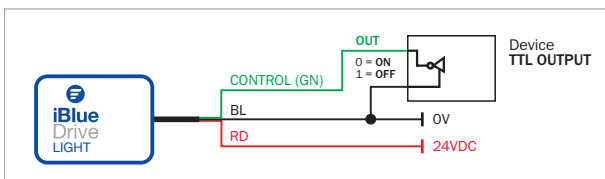
► Z2.1 - iBlueDrive control input wiring

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

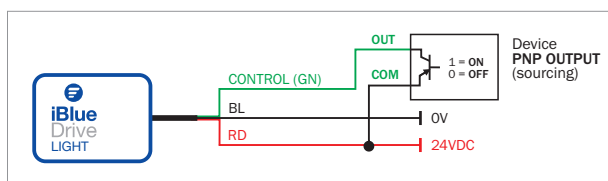
NPN wiring for strobe or ON/OFF mode



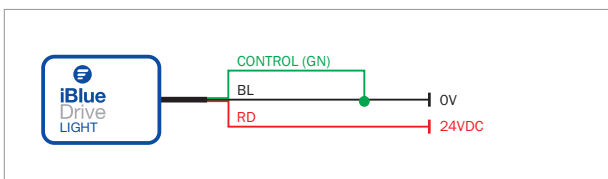
TTL wiring for strobe or ON/OFF mode



PNP 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













► Z4.1 - Environmental Specifications

Max. Operating Humidity	85% non-condensing
Operating Temperature	0 - 40°C
Storage Temperature	0 - 60°C
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



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