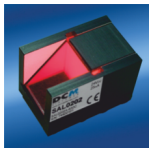
SAL21.01

SAL SERIES

90º diffuse axial lights

Ultra uniform axial system. The camera sees the object reflected on the same beamsplitter through which light falls into the piece. Very useful when a diffuse light illumination is needed to improve homogeneity and also avoid shines and shadows. Moreover, due to the 90° camera placing, total height setup is reduced.

Technical specifications[1]

Lighting model	SAL0202A	SAL0504A
		
Dimensions	38x25x30	83x63x77
Active surface	17x17	49x40
RWD (mm)	<100	<100
Weight	65g	330g
IP rating	IP40	IP40
Mounting holes	(x2)M3↧5	(x2)M4↧6
Connection *(Type C/S)*	BN = +24V ±3% BU = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V
Power cable	Pre-cabled with flying leads 2x0.22mm² L=1.8m	VCB Series *(Not-included)*
Modifiers[2]		
Accessories[3]		
iBlueDrive tech.	inline	inline
iBlueDrive connection	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[4]	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[4]
iBlueDrive power cable *(Not-included)*	VCC Series	VCC Series
iBlueDrive accessories[3]		

Instantaneous consumption[5] (max.)

*WT

Lighting model		SAL0202A	SAL0504A	*WT
TYPE C 24VDC	B	0.6W	6.1W	-470C
	G	0.6W	6.1W	-525C
	R	0.6W	6.1W	-630C
	i	0.6W	6.1W	-850C
	W	0.6W	6.1W	-W00C
TYPE P		No 'Type P' standard LED lighting systems in this series		
TYPE S Dmax= 1/20 Ton max= 2ms	B	90mA/2.2W	880mA/21W	-470S
	G	90mA/2.2W	880mA/21W	-525S
	R	90mA/2.2W	880mA/21W	-630S
	i	210mA/5W	2090mA/50W	-850S
	W	90mA/2.2W	880mA/21W	-W00S
TYPE i[6] iBlue Drive	B	0.9W[2.9W/0.8W]	4.8W[24W/3.6W]	-470i
	G	1.2W[2.9W/1W]	7.7W[24W/5.3W]	-525i
	R	1.2W[2.9W/1W]	7.7W[24W/5.3W]	-630i
	i	1.4W[5.3W/1W]	15W[48W/7.7W]	-850i
	W	1.2W[2.9W/1W]	7.7W[24W/5.3W]	-W00i

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

(2) Prior to manufacturing optional modifications in standard lighting systems. Please, consult the code before ordering (additional annex Z2.1).

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

(4) iBlueDrive control input wiring specifications in additional annex Z1.2.

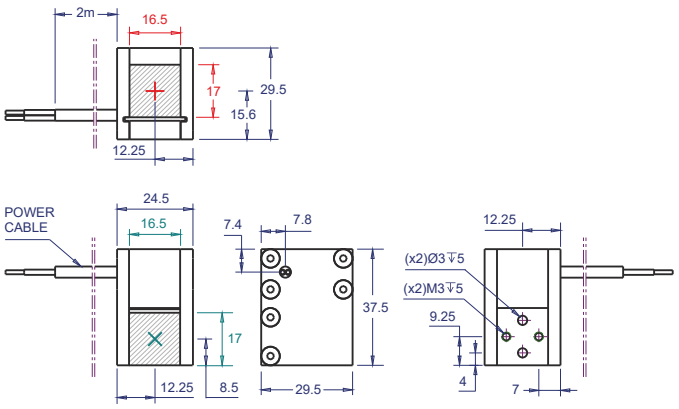
(5) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.

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

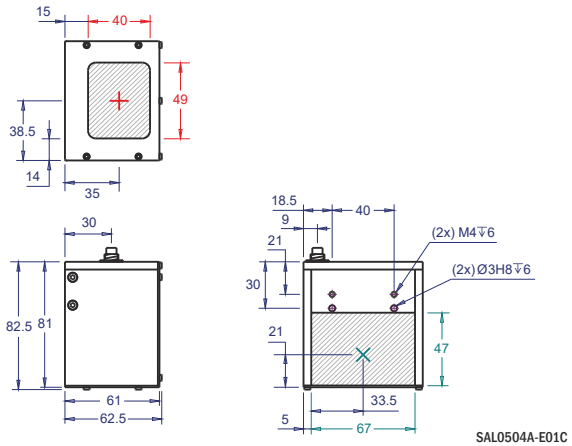
***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

SAL21.01

SAL SERIES

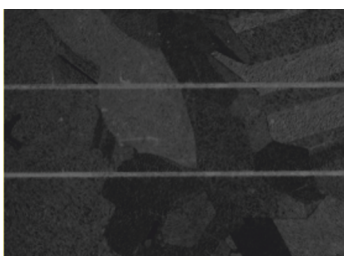


SAL0202A-E01C

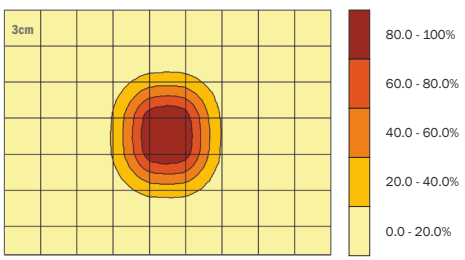


SAL0504A-E01C

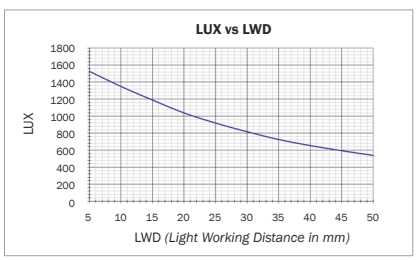
All units in millimeters, if not indicated.



Example of SAL captured image



Brightness distribution of SAL0504A-630C@50mm

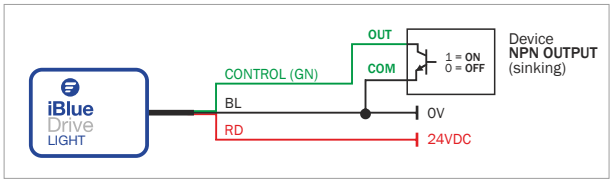


SAL0504A-630C light intensity.

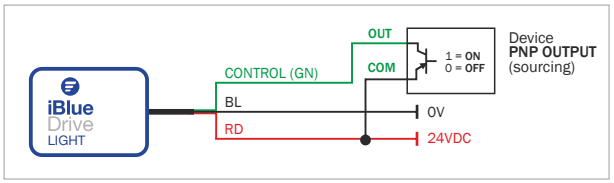
▶ Z2.1 - iBlueDrive control input wiring

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

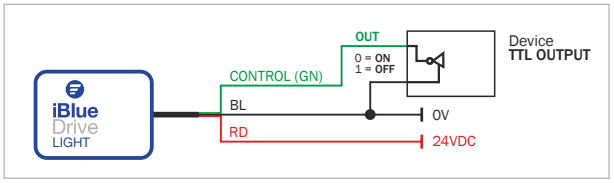
NPN wiring for strobe or ON/OFF mode



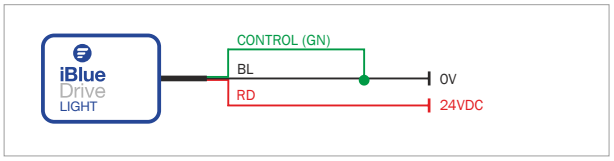
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

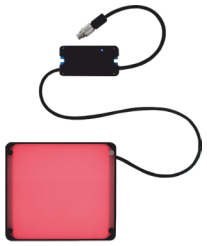


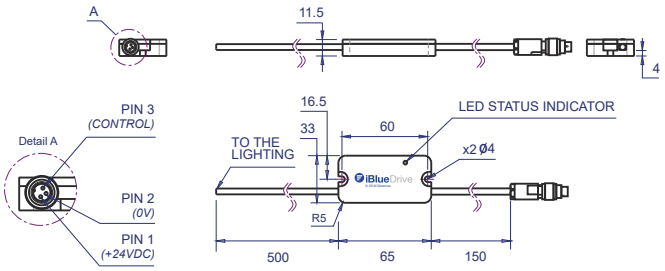
Wiring for continuous mode



▶ 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
	Narrow angle of emission	**/AN**
	Medium angle of emission *(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**
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