

SAX SERIES

Diffuse axial lights

Diffused axial lighting system that produces a diffused light upcoming from the camera axis which eliminates shines and shadows on reflecting objects.


















SAX19.01

► Technical specifications¹

Lighting model	SAX0505A	SAX1010B	SAX1515A	SAX2020A	SAX2515A
					
Dimensions	100x62x75	150x112x140	200x162x200	250x212x270	200x262x200
Active surface	52x50	102x100	152x150	201x200	152x250
RWD (mm)	<100	<120	<180	<200	<200
Weight	480g	1530g	3125g	5570g	5715g
IP rating	IP40	IP40	IP40	IP40	IP40
Mounting holes	(x4)M4x6	(x4)M4x6	(x9)M4x6	(x9)M4x6	(x9)M4x6
Connection	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 ²					
Accessories ³					
iBlueDrive tech.	Built-in	Built-in	Built-in	Built-in	Built-in
iBlueDrive connection	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control ⁴
iBlueDrive power cable (Not-included)	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series
iBlueDrive accessories ³					

► Instantaneous consumption⁵ (max.)

*WT

Lighting model	SAX0505A	SAX1010B	SAX1515A	SAX2020A	SAX2515A	
TYPE C 24VDC	 4.7W	14W	26W	46W	53W	-470C
	 4.7W	14W	26W	46W	53W	-525C
	 3W	10W	21W	42W	38W	-630C
	 3W	10W	21W	42W	38W	-850C
	 4.7W	14W	26W	46W	53W	-W00C
TYPE P	No 'Type P' standard LED lighting systems in this series					
TYPE S Dmax= 1/20 Ton max= 2ms	 705mA/17W	2110mA/51W	4310mA/103W	7655mA/184W	8800mA/211W	-470S
	 705mA/17W	2110mA/51W	4310mA/103W	7655mA/184W	8800mA/211W	-525S
	 705mA/17W	2110mA/51W	4310mA/103W	7655mA/184W	8800mA/211W	-630S
	 1045mA/25W	3345mA/80W	7315mA/176W	14630mA/315W	13165mA/316W	-850S
	 705mA/17W	2110mA/51W	4310mA/103W	7655mA/184W	8800mA/211W	-W00S
	 900mA/22W channel	3600mA/86W channel	4500mA/108W channel	9600mA/230W channel	9600mA/230W channel	-RGBS
TYPE i ⁶ 	 3.9W[20W/3W]	11W[48W/8W]	36W[96W/24W]	26W[96W/17W]	36W[96W/24W]	-470i
	 6.2W[20W/4.3W]	18W[48W/12W]	36W[96W/24W]	26W[96W/17W]	36W[96W/24W]	-525i
	 6.2W[20W/4.3W]	18W[48W/12W]	36W[96W/24W]	26W[96W/17W]	36W[96W/24W]	-630i
	 7.7W[24W/4.1W]	24W[48W/12W]	26W[96W/17W]	26W[96W/17W]	26W[96W/17W]	-850i
	 6.2W[20W/4.3W]	18W[48W/12W]	36W[96W/24W]	26W[96W/17W]	36W[96W/24W]	-W00i

N/A= Not available CUS = Custom

(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.

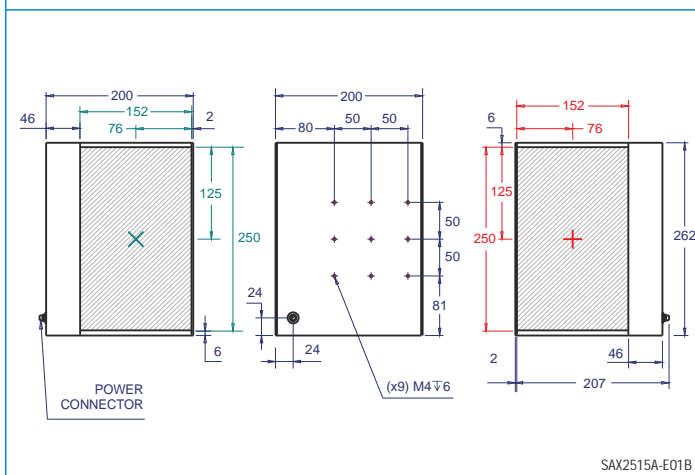
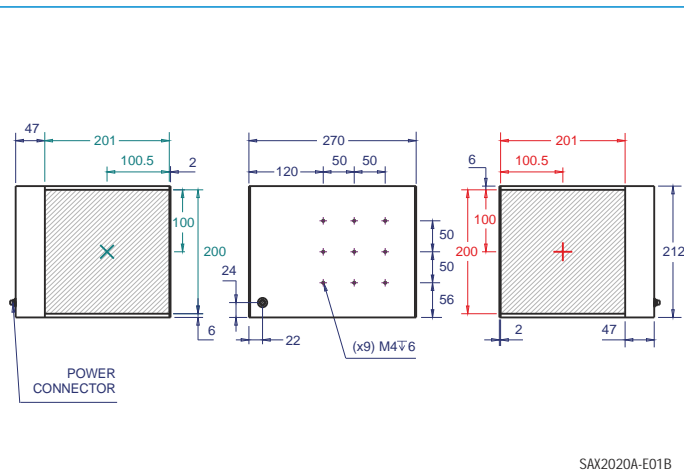
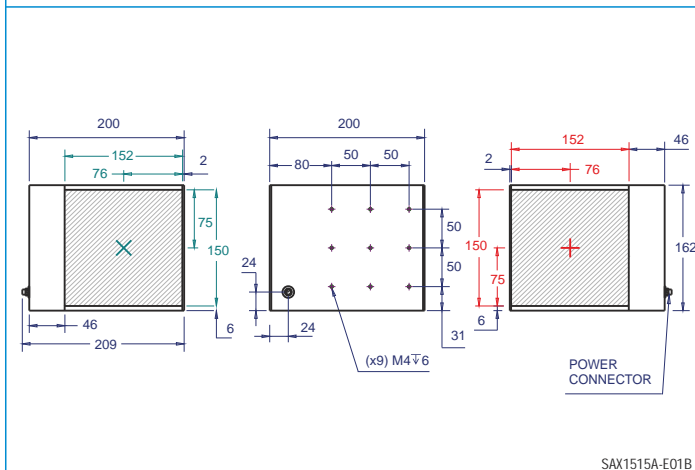
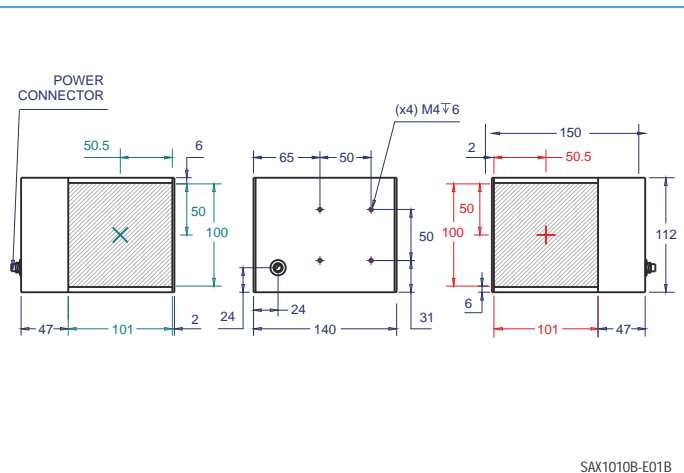
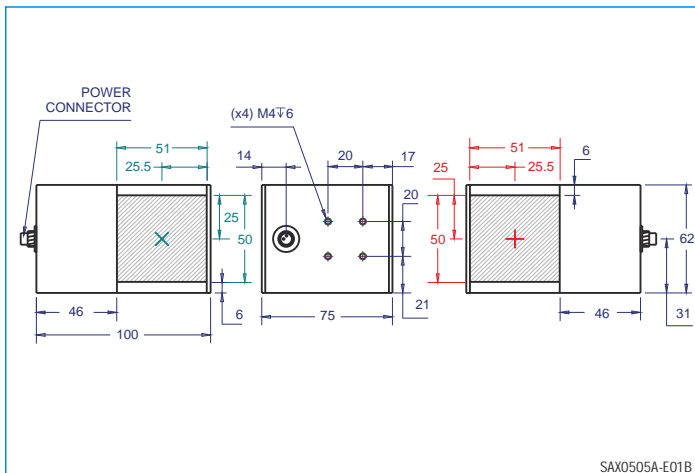
(4) iBlueDrive control input wiring specifications in additional annex Z1.2.

(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]



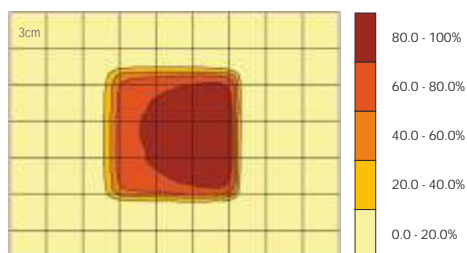
SAX SERIES



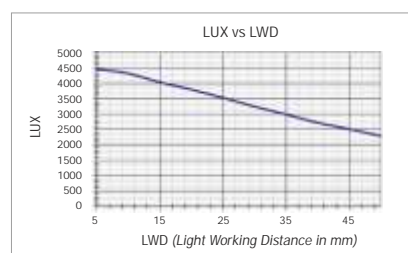
All units in millimeters, if not indicated.



Example of SAX captured image



Brightness distribution of SAX1010B-630C@5mm

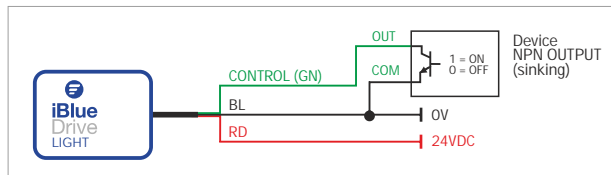


SAX1010B-630C light intensity.

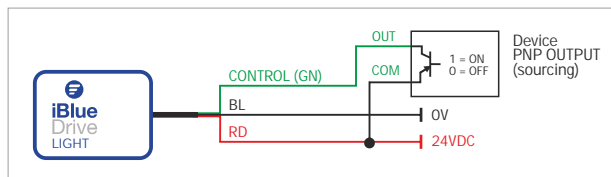
► Z1.2 - iBlueDrive control input wiring

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

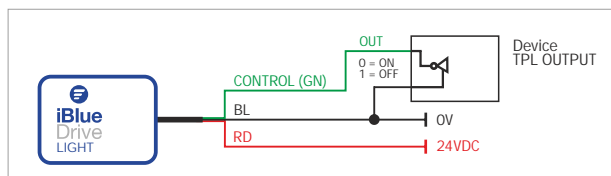
NPN wiring for strobe or ON/OFF mode



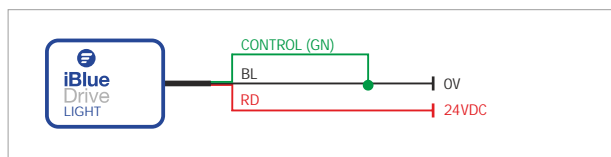
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

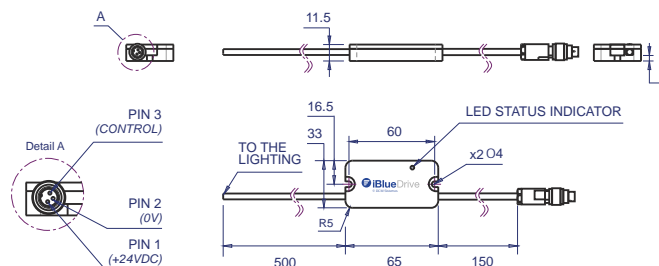


Wiring for continuous mode



► 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 - 40°C
Storage Temperature	0 - 60°C
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 = 23-24° (x) 17-18° (y)	/AO
	Diffuse emission	/AD
	Polarizer filter	/FPL
	Diffuser filter	/FDR
	Dome hole of 46mm	/CC1
	Dome hole of 40mm	/CC2
	IP Rating = IP67	/67
	PNP input model	/P
	50mm focal Length	/F1
	150mm focal Length	/F2
	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
	Collimator filter on x axis	VCFx
	Collimator filter on y axis	VCFy
	Collimator 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
	365nm	UV-	-365
	400nm	UV	-400
	470nm	BLUE	-470
	525nm	GREEN	-525
	630nm	RED	-630
	850nm/880nm	IR	-850/-880
		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