

# SAC SERIES

## Diffuse axial compact lights

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


















SAC19.01

### ► Technical specifications<sup>1</sup>

Lighting model	SAC0505A	SAC0808A	SAC1010A	SAC3010A
				
Dimensions	100x61x62	125x87x85	150x112x108	312x100x108
Active surface	52x50	75x75	100x100	100x300
RWD (mm)	<100	<100	<120	<200
Weight	400g	740g	1510g	2375g
IP rating	IP40	IP40	IP40	IP40
Mounting holes	(x4)M4x6	(x4)M4x6	(x8)M4x6	(x8)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
Power cable (Not-included)	VCB Series	VCB Series	VCB Series	VCB Series
Modifiers <sup>2</sup>				
Accessories <sup>3</sup>	  	  	  	  
iBlueDrive tech.	inline	Built-in	Built-in	Built-in
iBlueDrive connection	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control <sup>4</sup>
iBlueDrive power cable (Not-included)	VCC Series	VCC Series	VCC Series	VCC Series
iBlueDrive accessories <sup>3</sup>	  	  	  	  

### ► Instantaneous consumption<sup>5</sup> (max.)

\*WT

Lighting model	SAC0505A	SAC0808A	SAC1010A	SAC3010A	
TYPE C 24VDC	 3.8W	8.9W	8.5W	26W	-470C
	 4.1W	9.2W	9.5W	29W	-525C
	 4.2W	4.8W	9.5W	29W	-630C
	 4.2W	4.8W	9.5W	29W	-850C
	 4.1W	9.2W	9.5W	29W	-W00C
TYPE P	No 'Type P' standard LED lighting systems in this series				
TYPE S Dmax= 1/2° Ton max= 2ms	 615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-470S
	 615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-525S
	 615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-630S
	 1465mA/35W	1670mA/40W	1585mA/38W	1585mA/38W	-850S
	 615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-W00S
	 700mA/22W channel	1500mA/36W channel	1600mA/38W channel	4800mA/115W channel	-RGBS
TYPE i <sup>6</sup> 	 3.5W[17W/2.6W]	7.4W[39W/5.5W]	8.3W[44W/6.1W]	24W[130W/17W]	-470i
	 5.5W[17W/3.8W]	12W[39W/8.2W]	13W[44W/9.1W]	39W[130W/26W]	-525i
	 5.5W[17W/3.8W]	12W[39W/8.2W]	13W[44W/9.1W]	39W[130W/26W]	-630i
	 11W[34W/5.5W]	12W[39W/6.2W]	13W[48W/9.1W]	39W[144W/26W]	-850i
	 5.5W[17W/3.8W]	12W[39W/8.2W]	13W[44W/9.1W]	39W[130W/26W]	-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).

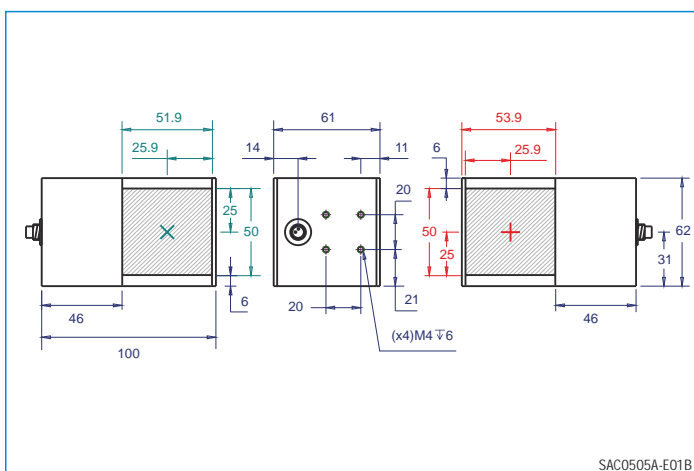
(3) Accessories are not-included. More information in accessories section.

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

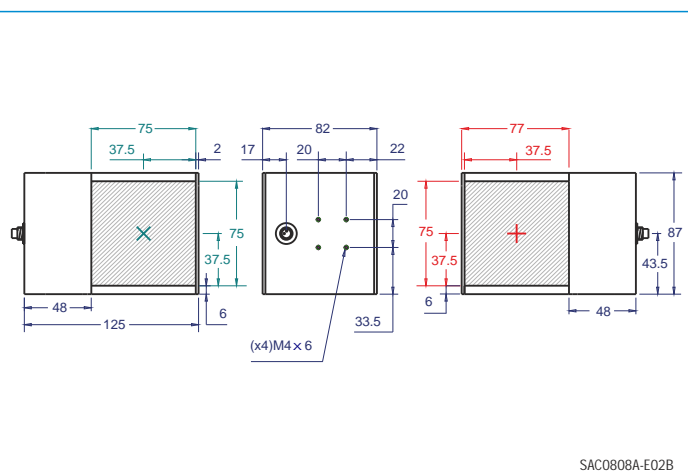
(5) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.

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

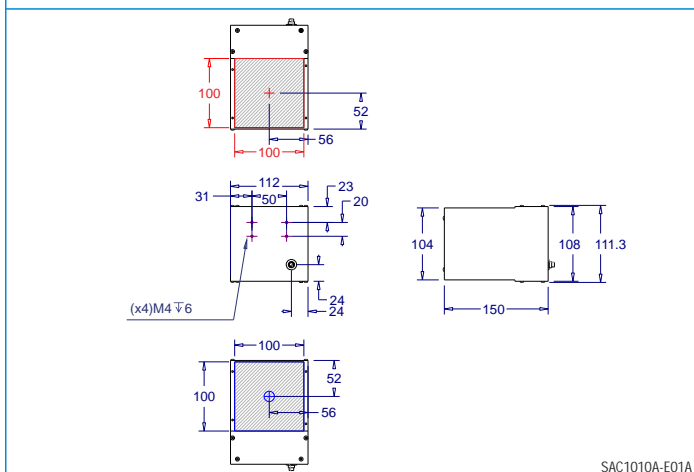
# SAC SERIES



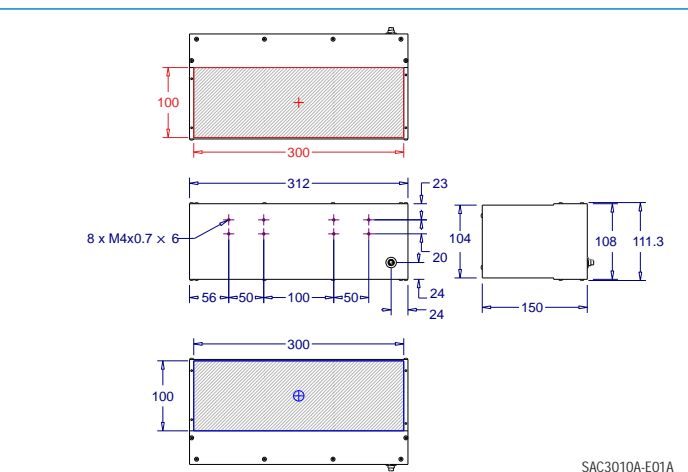
SAC0505A-E01B



SAC0808A-E02B



SAC1010A-E01A



SAC3010A-E01A

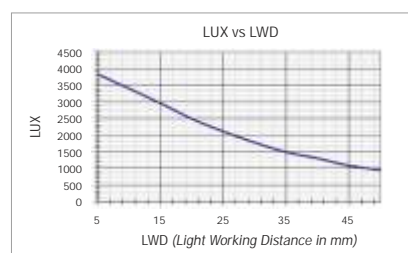
All units in millimeters, if not indicated.



Example of SAC captured image



Brightness distribution of SAC0505A-630C@5mm

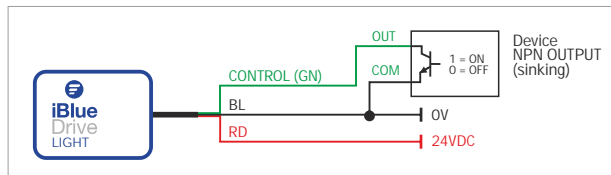


SAC0505A-630C light intensity.

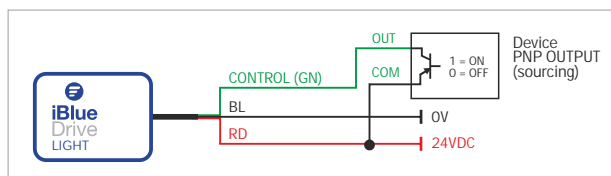
## ► Z1.2 - iBlueDrive control input wiring

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

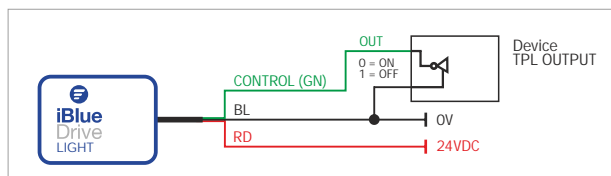
### NPN wiring for strobe or ON/OFF mode



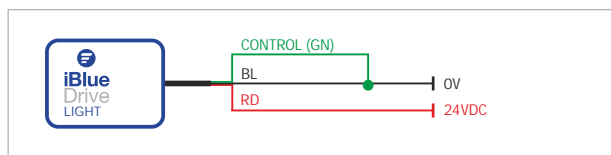
### PNP wiring for strobe or ON/OFF mode



### TTL wiring for strobe or ON/OFF mode

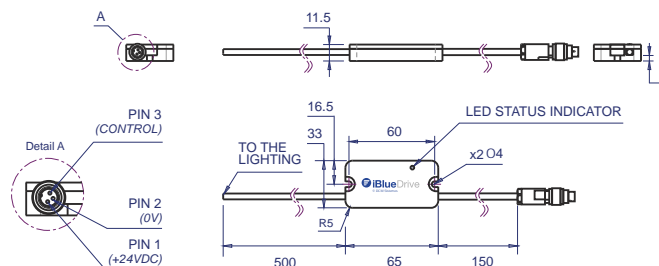


### Wiring for continuous mode



## ► 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