

SAC SERIES

Diffuse axial compact lights

SAC21.01

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

▶ Technical specifications¹

Lighting model	SAC0505A	SAC0808A	SAC1010A	SAC3010A
		NO.		
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)M4J6	(x4)M4I6	(x8)M4I6	(x8)M4I6
Connection (Type C/S)	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 = \pm 24V \pm 3% PIN 2 = 0V
Power cable (Not-included)	VCB Series	VCB Series	VCB Series	VCB Series
Modifiers ²	②	(2)	\boxtimes	⊗
Accessories ³				
iBlueDrive tech.	inline	Built-in	Built-in	Built-in
iBlueDrive connection	3P aerial male inline connector. L= 715mm. PIN 1 = \pm 24V \pm 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
iBlueDrive accessories ³	(3)	(3)	%	%@ (1)

Instantaneous consumption ⁵ (max.)				*WT		
Lighting model		SAC0505A	SAC0808A	SAC1010A	SAC3010A	
7.775.0	B	3.8W	8.9W	8.5W	26W	-470C
TYPE C	О	4.1W	9.2W	9.5W	29W	-525C
24VDC	ß	4.2W	4.8W	9.5W	29W	-630C
	0	4.2W	4.8W	9.5W	29W	-850C
	w	4.1W	9.2W	9.5W	29W	-W00C
TYPE P		No 'Type P' standard LED	lighting systems in this seri	es		
T)/DE 0	B	615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-470\$
TYPE S	G	615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-525S
Dmax= ½0 Ton max= 2ms	ß	615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-630S
1011 111dx - 21113	0	1465mA/35W	1670mA/40W	1585mA/38W	1585mA/38W	-850S
	w	615mA/15W	1410mA/34W	1585mA/38W	1585mA/38W	-W00S
	•	700mA/22W channel	1500mA/36W channel	1600mA/38W channel	4800mA/115W channel	-RGBS
TYPE i ⁶	B	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
9	(B)	5.5W[17W/3.8W]	12W[39W/8.2W]	13W[44W/9.1W]	39W[130W/26W]	-630i
iBlue	0	11W[34W/5.5W]	12W[39W/6.2W]	13W[48W/9.1W]	39W[144W/26W]	-850i
Drive	(W)	5.5W[17W/3.8W]	12W[39W/8.2W]	13W[44W/9.1W]	39W[130W/26W]	-W00i

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



⁽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).

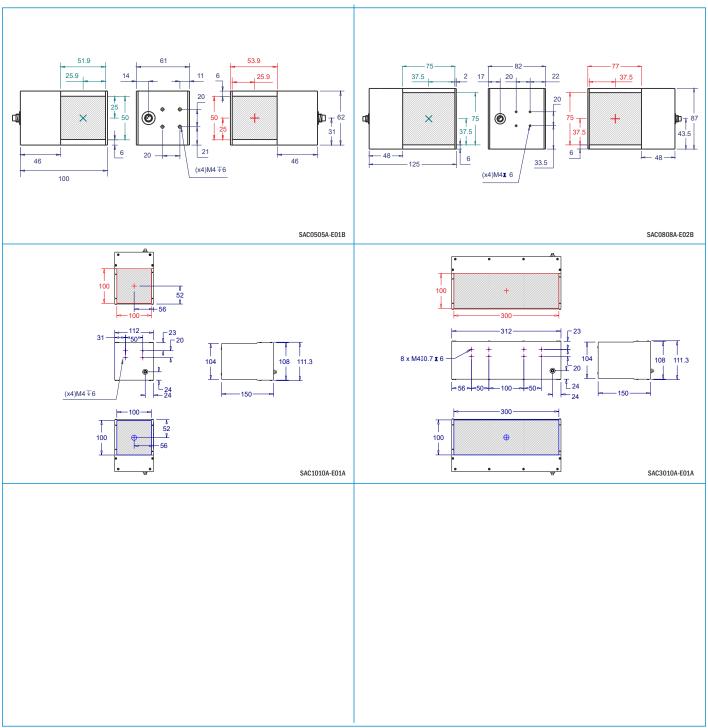
⁽³⁾ Accessories are not-included. More information in accessories section.

⁽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.

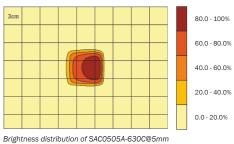
SAC21.01

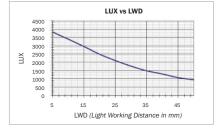
SAC SERIES



All units in millimeters, if not indicated.







Example of SAC captured image

SAC0505A-630C light intensity.

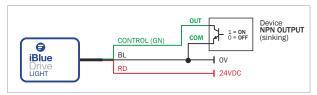


Z2X21.01

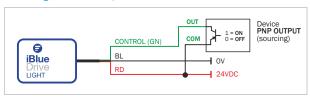
▶ Z2.1 - iBlueDrive control input wiring

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

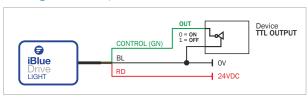
NPN wiring for strobe or ON/OFF mode



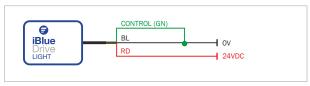
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode



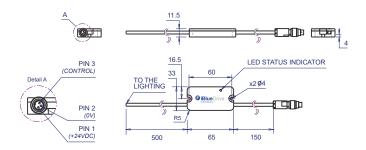
Wiring for continuous mode



➤ 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
Q ₀	Accessorie to configure iBlueDrive devices: iBlueDrive Box, iBlueDrive USB	VTA0005A, VTA0006A, VTA0007A
1	iBlueDrive optocoupler	VTA0020A
0	iBlueDrive potentiometer	VTA0030B



Z3X21.01

► Z3.1 - Environmental Specifications

Max. Operating Humidity	85% non-condensing
Operating Temperature	0 - 40°C
Storage Temperature	0 - 60°C
Housing material	Anodized aluminium
Standards	CE X Q

Z3.2 - Modifiers legend

icon	Description	Code
\bigcirc N	Narrow angle of emission	/AN
∠ M	Medium angle of emission (default)	/AM
(AW)	Wide angle of emission	/AW
<u>a</u>	Oval angle of emission = 23-24° (x) 17-18° (y)	/A0
(1D)	Diffuse emission	/AD
Ø	Polarizer filter	/FPL
<u>(?)</u>	Diffuser filter	/FDR
Н	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
<i>f</i> 3	Infinite focal Length	/F3
xs	Lighting by sectors = 2 or 4 sectors	/2\$ /4\$

▶ Z3.3 - Accessories legend

icon	Description	Serie
₩	Power cable/s	VCB, VCC, VCD Series
(/*)	Other cable/s	VCU, VCL
(III)	Strobe and RGB controller/s	VST, VSC Series
\boxtimes	Polarizer filter	VPF, VPC
2	Diffuser filter	VDF
	Collimater filter on x axis	VCFx
	Collimater filter on y axis	VCFy
	Collimater filter on xy axis	VCFxy
(5)	Darkfield converter	VRF
Ø	Protector filter	VPT
*	Heat dissipator	VHD
8	Fixing bracket	VBA, VBB, VBC Series

► Z3.4 - Technical drawings legend

icon	Description		
×	Optical axis		
₽ ^N	Viewing window dimensions		
_	Lighting elements		
+	Light emission center		
A	Lighting surface dimensions		

▶ Z3.5 - Colours & Wavelegths legend

icon	Wavelength	Colour	Code
①	365nm	UV-	-365
0	400nm	UV	-400
B	470nm	BLUE	-470
G	525nm	GREEN	-525
R	630nm	RED	-630
•	850nm/880nm	IR	-850/-880
W		WHITE	-W00
P		RGB	-RGB

► Z3.6 - Types of lighting legend

	icon	Description
	V.V.	Radial lighting
	714	'Darkfield' lighting effect. Low angle illumination
		Backlight illumination
		'Cloudy day' lighting effect
		'Bright field' lighting effect
	77	Projector lighting
		Axial lighting

➤ Z3.7 - Types of light legend

icon	Description
3	Direct light
3	Diffuse light
	Ultra-diffuse light





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