Electronic LED RGB Control Modules **OPTOTRONIC® OT RGB**

Distributed by www.gilway.com 781.935-4442 Technical Lamp Fax: 781.938.5867

RGB Module Guide

OT RGB 3CH DIM OT RGB SEQUENCER

OTRGB modules operate in conjunction with the following LED Power Supplies: (Literature Ordering #ECS027) OT6/100-240/10COS OT6/100-240/24COS OT20/120-240/24S

Controls all OSRAM LED modules including: LINEARlight Colormix (Literature Ordering #LED016) LINEARlight Flex Colormix (Literature Ordering #LED017)

Key System Features

- Lightweight, low profile
- -20°C through 50°C ambient operation
- Long life
- Utilizes pulse width modulation, (PWM)
- 0 10 VDC control voltage
- Dimming Range: 0 100% (OT RGB 3CH DIM)
- 10V 24 VDC Input Voltage
- Short Circuit, Overload and Overheating Protection when operated in conjunction with OPTOTRONIC® power supplies
- Low power loss
- Output terminals with common positive pole

Application Information

OSRAM OPTOTRONIC OT RGB modules are

ideally suited for:

- Combining with Colormix and multi-color LED modules for color mixing applications
- For dynamic color changing
- For selecting any color within the chromaticity triangle
- Wall washing
- Cove lighting
- Facade lighting
- Effect lighing

OT RGB control modules are compact pulse width modulated (PWM) controllers for creating colored lighting solutions with LED's. The OT RGB 3CH DIM allows color mixing by independently controlling three dimmable output channels. The OT RGB SEQUENCER generates a preset dynamic sequence of colors, allowing the user to control the speed of the sequence. Both modules are controlled by 0...10 VDC control inputs.

The OPTOTRONIC collection of power supplies and RGB controls combined with Osram LED modules provides the optimum solution for colored lighting applications. Having the entire system available from Osram provides unmatched ease of use and low complexity, opening up new possibilities for the world of dynamic colored lighting.



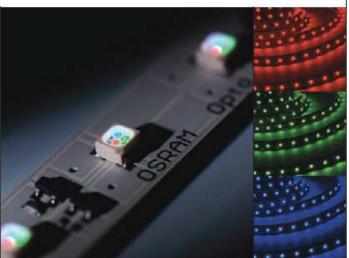
System Information

To combine with the variety of RGB LED modules, OSRAM SYLVANIA offers specifically matched OPTOTRONIC Power Supply Units with rated voltages of 10V and 24V.

The OT RGB control modules operate on the principle of pulse width modulation and are used on the secondary side of the power supply unit, i.e. wired between the OPTOTRONIC and the LED modules (diagram). The OT RGB controlled modules can be controlled via a 0...10V interface.

In pulse width modulation with the RGB controllers, the power supply to the LED Modules is interrupted at a frequency of 350 Hz. This permits individual adjustment of the required light output. In this context, the high frequency provides flicker-free lighting. Pulse width modulation technology guarantees a linear dimming and color mixing characteristic for the eye at maximum dimming speed without any color shift from the LED. In contrast, dimming LED's by simply changing the applied voltage can result in significant color shift.







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		nical La	amp Fax:781.938.586							
		Nominal Input	Max. ¹ Input	Control	Output Power	Max. ² Output	Max. Power	Max. Output Current	Performance Guid	
ltem Number	Description	Voltage (VDC)	Current (A)	Voltage (VDC)	per channel (W)	Power (W)	Loss (W)	per channel (A)	RGB Control module shall be an LED OPTOTRONIC	
1517 1518	OT RGB 3CH DIM OT RGB SEQUENCER	10.5 / 24	6	0-10	0-20 / 0-48	60 / 140	3	2	electronic module with 10 – 24 VDC input, with 0 – 10 VDC control voltage,	
For Class 2 applications maximum input power is limited to 50W@10.5V and 100W@24V. For Class 2 applications maximum output power would be 47W@10.5V and 98W@24V.									and a common positive pole for the 3 channel output.	
Dimensions: 6.77" L x 1.65" W x 0.79" H (172mm L x 42mm W x 20mm H) Weight: 0.165 lbs ea. (approx.) 3.3 lbs/carton Wiring: Connectors only (No leads provided) Use 14AWG solid or stranded copper wire only									Specification RGB Control Module Input Voltage Range: 9.5-25V Input Current: 6 Amps max. Output Frequency: 350 Hz Output Current: 2 Amps max. per channel Dimming Range: 0 – 100% for	
Wiring Diagram:									Control Specificatio RGB control modules can be control by 0-10V DC controllers (see ECS04 or 100 Kohm linear potentiometers OT RGB modules can be controlled DMX to 0-10V converters or DALI 0-10V converters	
	0-10V controller	+ B < 0.6r	n potentiometers	B - 10, She Chanel Green Channel Red Channel		OT RGB SI The following	preset profil	le is	O-10V interface on the OT RGB 3 CI DIM has a common cathode conner. OT RGB SEQUENCER has a preset of sequence that can be controlled by 0-10V controller: Below 1.3V the output is OFF. Between 1.3V and 9.8V the sequence speed changes from 5 seconds to 10 minutes.	
01000	N OTR. 0729	- 0 -10 + < 0.6	OT RGB SEQUENCER	R- 10. B- 10.	100%	generated by speed of the scontrolled from control input.	equence ma	ay be	Above 9.8V the sequence retain its current color System Life / Warrar OPTOTRONIC OT RGB products are	
		LINEARIGH	Solermix	Ske Channel Green Channel Feel Channel	2%		3 4 5 Time(s)	6 7 8	covered by our LED system warran a comprehensive LED module and power supply system warranty. For additional details, refer to our lates' version of the LED warranty bulleting	
Ite	m Number		51517 OT F	RGB 3CH DII	М			la.	Ordering Gu	

- 3 Channel Dimming

Specifications subject to change

without notice.

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