

RGB Controller User Manual

rev. 11

cybroTECH

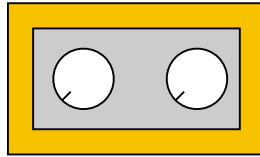
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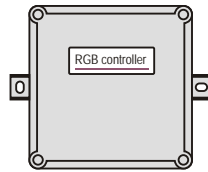
General usage

System

light 0..100%
color 0..360°
on/off switch



24VDC
power supply



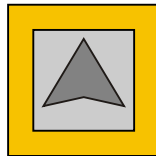
RGB controller



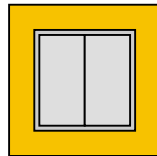
DALI regulating ballasts
RGB fluorescent lamps



light 0..100%
color 0..360°
on/off switch
special functions

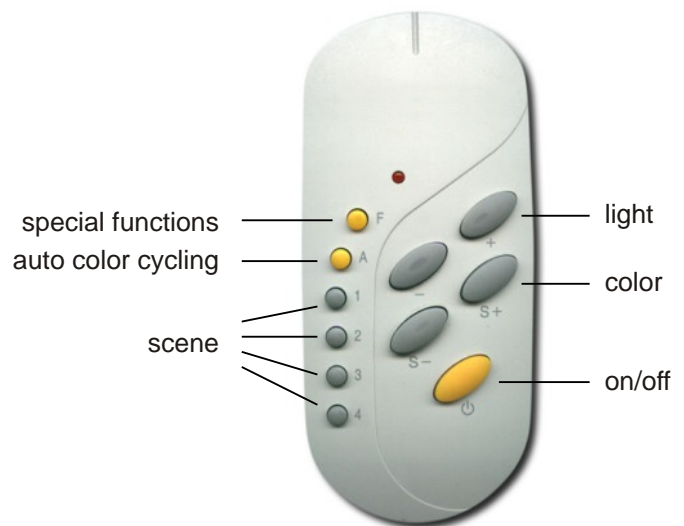


IR receiver

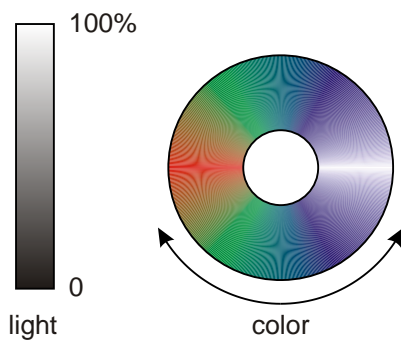


light 0..100%
on/off switch

Remote controller



Light and color controls



Special functions

To perform a special function, press F, then 4-digit combination followed by on/off key. Function is accepted by two short beeps. Error is signaled by a long buzz.

Light step

- F1211 - 1%
- 12 - 2%
- 13 - 5%
- 14 - 10% (default)
- 21 - 20%
- 22 - 25%
- 23 - 33%
- 24 - 50%



Color step

- F1311 - 8 colors
- 12 - 16 colors
- 13 - 32 colors (default)
- 14 - 64 colors



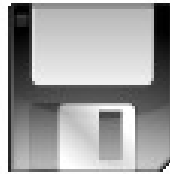
Fade

- F1341 - off (default)
- 42 - fast
- 43 - medium
- 44 - slow



Store scene

- F4421 - scene 1
- 22 - scene 2
- 23 - scene 3
- 24 - scene 4



Beeper

- F1121 - on (default)
- 22 - buttons on, potentiometer off
- 23 - off



Power-fail

- F4311 - off (default)
- 12 - 25% white
- 13 - 50% white
- 14 - 100% white
- 21 - scene 1
- 22 - scene 2
- 23 - scene 3
- 24 - scene 4



Color cycling

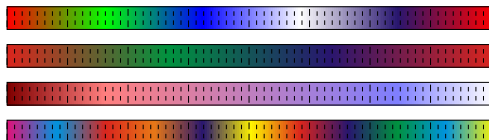
- F3311 - 10 sec (fast)
- 12 - 15 sec
- 13 - 20 sec
- 14 - 30 sec (default)
- 21 - 1 min
- 22 - 2 min
- 23 - 5 min
- 24 - 10 min (slow)



Specified time is related to full color cycle.

Color wheel

- F3111 - red-green-blue-white (default)
- 12 - red-green-blue
- 13 - black-body heating
- 14 - random



Power-off with delay

- F4211 - 10 sec
- 12 - 30 sec
- 13 - 1 min
- 14 - 2 min

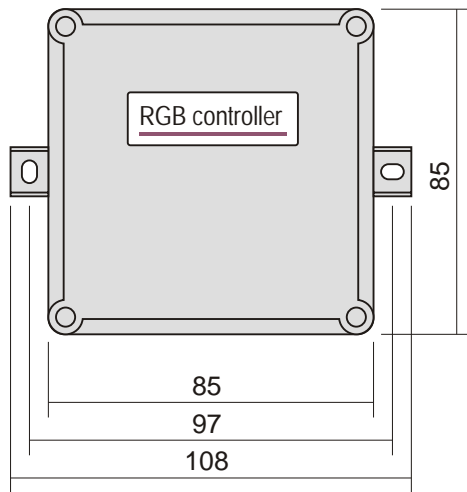


Special

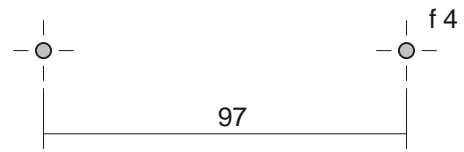
- F4444 - reset all parameters to default values

Mounting and wiring

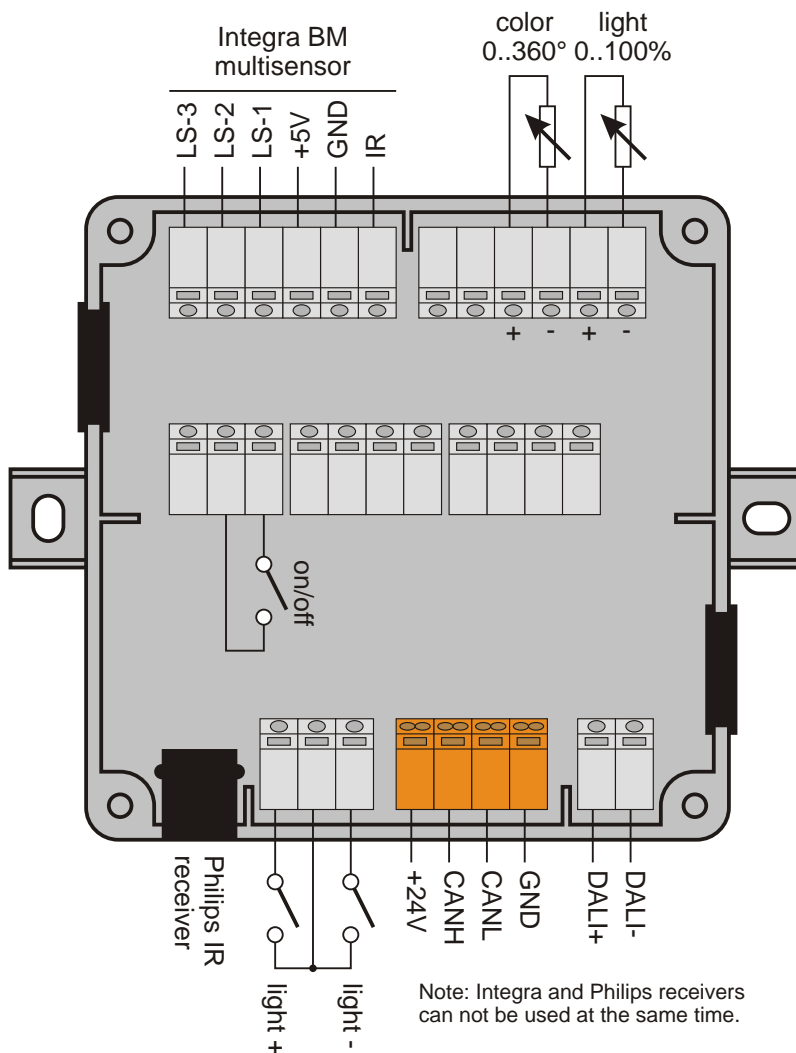
Dimensions



Mounting



Wiring



Equipment

Analog input
 - linear potentiometer 0..10kohm
 or
 - Philips potentiometer LPS 100

Digital input
 - manual pushbutton/switch

IR receiver
 - Integra BM multisensor (MS)
 or
 - Philips infrared receiver IRR 8124

Technical specifications

Power supply: 24V (18..26V)
 Power consumption: max. 150mA
 - without sensors and ballasts: 40mA

Analog input
 Input range: 0..10V (10 bit ADC, 0..1023)
 Internal pull-up: 12V 2mA

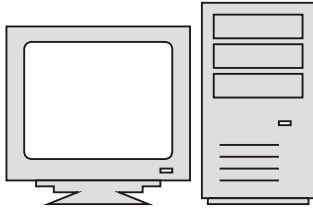
Digital input
 Signal type: common-ground switch
 Internal pull-up: 12V 1mA

Infrared receiver (Integra BM)
 Power supply output: 5V 10mA
 Signal type: TTL level, inactive high
 Internal pull-up: 5V 0.5mA

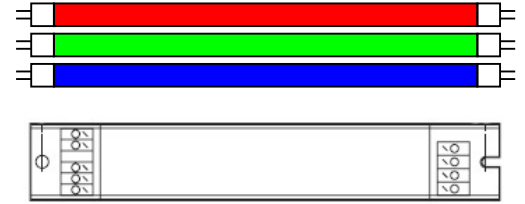
DALI output
 Output current: max. 100mA
 Load protection: short circuit proof
 Maximum number of ballasts: 32
 (64 with external DALI supply)

Configuring

Each DALI ballast should be properly configured before use.
To configure ballasts, the following equipment is needed:



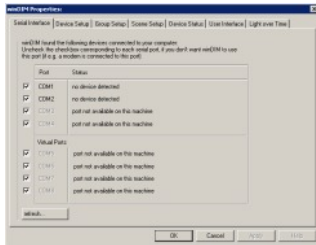
PC with a serial COM port



DALI ballast and lamps



DALI SCI interface



WinDim software



RGB controller

WinDim may be download on manufacturers web pages. During the configuring, RGB controller is used to power supply DALI line.

Configuration

Each ballast should be detected (automatic or manually), then group address should be assigned according to the following scheme:

- RED ballasts should be configured as Group 1
- GREEN ballasts should be configured as Group 2
- BLUE ballasts should be configured as Group 3



Device address and scene setup are not important for using with RGB controller.

For more details about configuring, please check WinDim Help.