

OEMLED

by ETi

H I G H P O W E R L E D s & C O N T R O L G E A R

2 0 0 7

RGB System

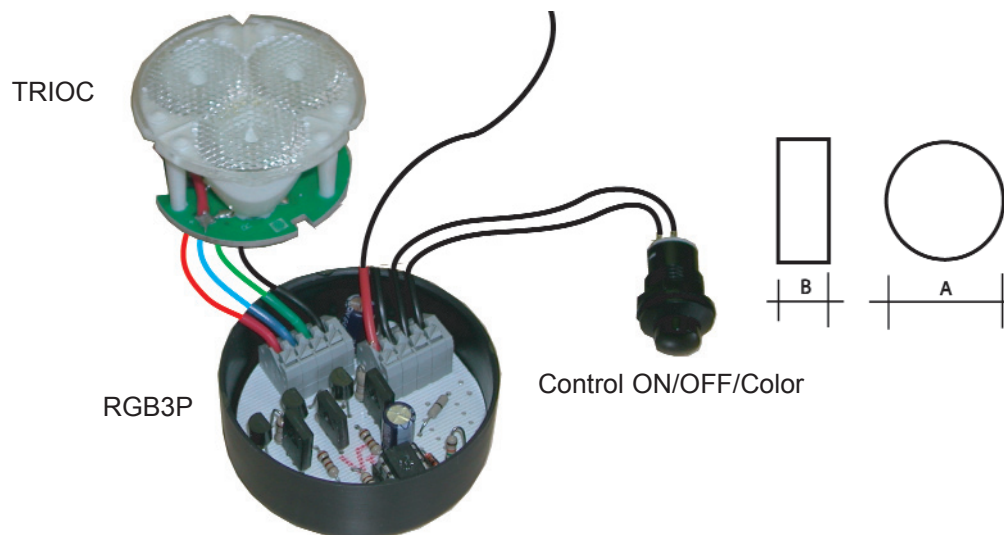
□RGB□ (Red-Green-Blue) system

One of the most important features of High Brightness LEDs is the pureness of the emitted light. If three High Brightness LEDs in green, blue and red are switched on at the same time, these three LEDs together produce the white light. If the single currents of the three LEDs are well regulated, all desired colors can be obtained. ETI introduces a new and modular system for colored lighting. Just through one push-button only (patented system) all system functions are carried out very easily. With a short push you switch on/off the system; keep on pushing the button, you see all colors changing; just stopping pushing the button the color running in that moment is fixed. "Color memory": switching on the system again, the color previously selected is restored. With two further short pushes the light goes back to the white color. Through a prolonged push for over 20 seconds colors start changing automatically. This automatic color running cycle can be stopped by a short push at any moment. Through this innovative RGB system it's possible to install very easy lighting systems and all of the same color. To every driver "RGPIO31" it's possible to connect up to 9 pcs spot TRIOColor, 2 spot U115RGB or 9 pcs TRIOAmbient. By using RGPIO31 device with TRIOColor spots you can regulate the colored light; by using the same RGPIO31 device with TRIOAmbient spots you can regulate the the color temperature of white light running from a warm white 2850□K to a cool white 8000□K (patented system). Possible parallel connection of max. 25 drivers "RGPIO" controlled by one or more push buttons

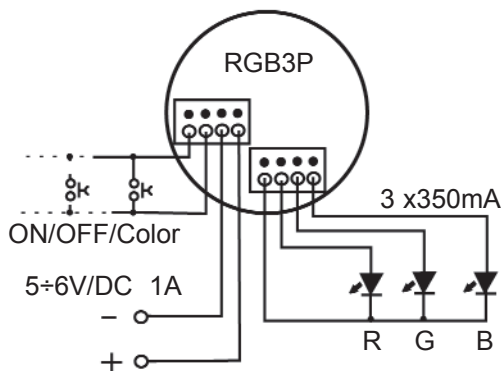
“RGB3” Power LED RGB Controller

Converters for High Brightness LEDs in "RGB" systems

- Built-in controller device - IP20 - Insulation class II
- Light control (on, off and dimming) by one push-button
- Suitable for 3 x 1W High Brightness LEDs (spots TRIOColor / Ambient) - Output in constant current 350mA, $\pm 10\%$ - Series connection - Standard software cycle: 17 seconds (on request, 30 or 60 seconds)
- Connection with fast terminal blocks
- Input voltage: by 5V/DC - 6V/DC 1,1A battery or by PLP502 converter.



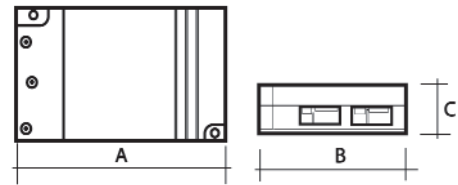
Model	LED min max	Output I max V max	Dimensions A x B	oz.	Part Number
RGB3P	3 3	350mA 6V DC	2.0" x 0.8"	1.8 oz.	QT-RGB3P000N



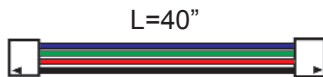
“RGBBox” Power LED RGB Converter

Converters for High Brightness LEDs in "RGB" systems

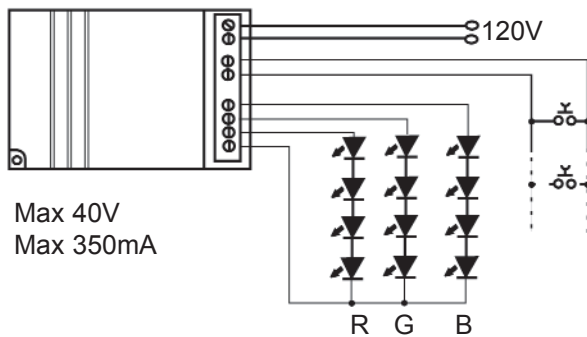
- Independent converter - IP40 - Insulation class II
- Light control - on, off and dimming - by one or more push-buttons
- Suitable for 1W High Brightness LEDs
- Output in constant current 350mA, ±10%
- Series connection - Standard software cycle:
17 seconds (on request, 30 or 60 seconds)
- Self-resetting protection against over temperatures, open circuits and against output's short circuits.
- Input voltage: 120V/AC - 267V/AC RBGBOX31 - Steady output
- Parallel connection for max. 25 "RGBBox" controlled by the same (or more) push-buttons



Model	LED		Output		Dimensions			oz.	Part Number
	min	max	I max	V max	A	B	C		
RGBBox 31	3	24	350mA	40V	5.7"	x 3.0"	x 1.1"	5.6 oz.	QT-RGBBOX310B



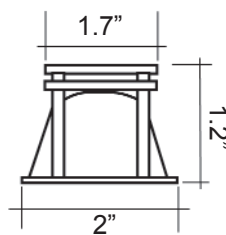
PATENTED



“TRIOAmbient” Natural Light Power LED Spot

High Brightness LED spot - 3 x 1W - 350mA

- Generates all the shades of white color (Patented)
- Light power up 150 lumen
- Suitable for being built in standard Ø 2” downlights
- Delivered with 2 x CB064, 11.8” 4 pins cables (M/F) with AMP connectors

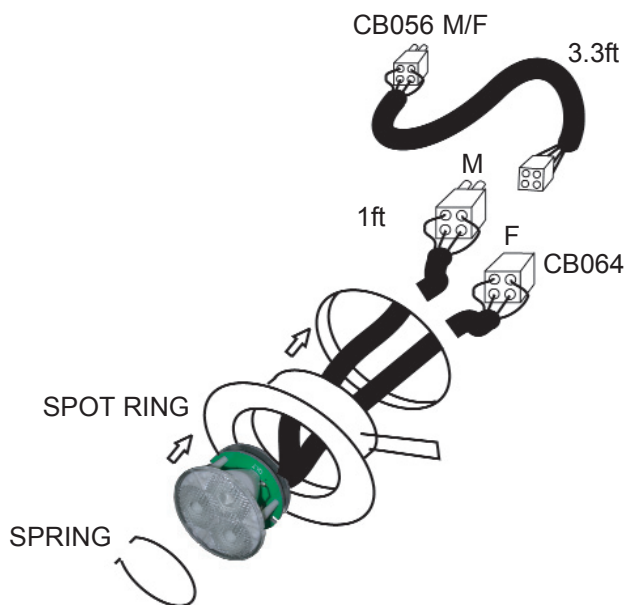


TRIOA MR 16

Model	W Equivalent Power	Lumen Type	Lux @1m (cd)				V (typ.)	I (typ.)	Part Number
			Narrow	Medium	Wide	No Lens			
TRIOA	5	150	2100	690	225	25	3.6V	3 x 350mA	QT-TRIOA X 000

Lens

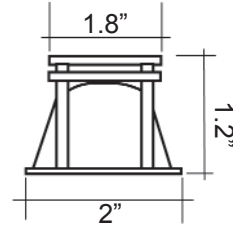
- N** - Narrow Diffused
- M** - Medium Diffused
- W** - Wide Diffused
- F** - Wide Flat Precision
- R** - Mini Narrow Diffused
- O** - Mini Medium Diffused
- S** - no lens



“TRIOColor” RGB-System Power LED Spot

High Brightness LED spot - 3 x 350mA

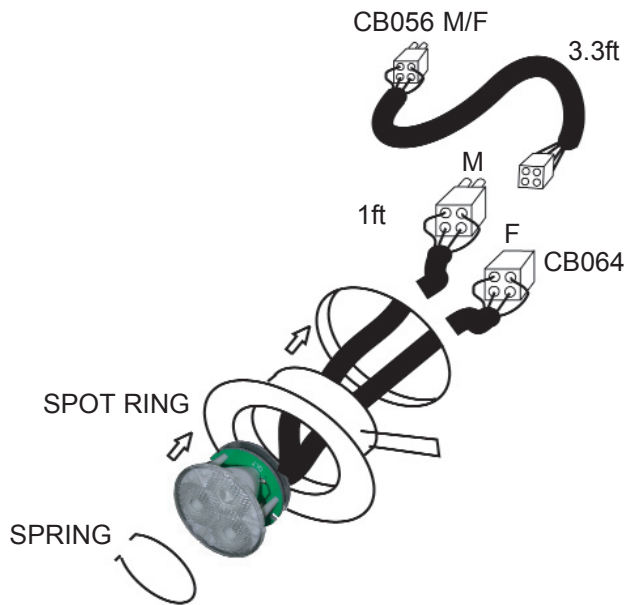
- Light power up 117 - 140 lumen
- Suitable for being built in standard 50 downlights
- Delivered with 2 x CB064, 30 cm 4 pins cables (M/F) with AMP connectors



TRIOColor MR16

Model	W Equivalent Power	Lumen Type	Lux @1m (cd)*				V (typ.)	I (typ.)	Part Number
			Narrow	Medium	Wide	No Lens			
TRIOColor	9	120	1600	400	140	25	3.6V	3 x 350mA	QT-TRIOColorX000

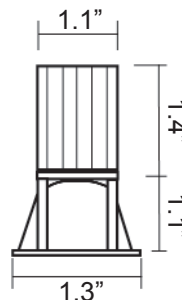
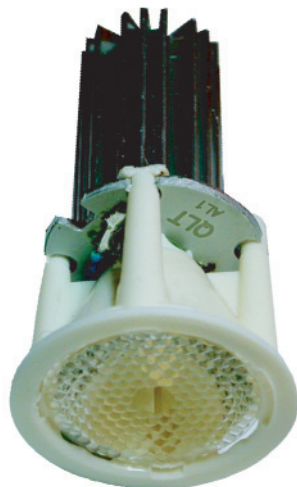
- Lens
- N - Narrow Diffused
 - M - Medium Diffused
 - W - Wide Diffused
 - F - Wide Flat Precision
 - R - Mini Narrow Diffused
 - O - Mini Medium Diffused
 - S - no lens



“TRIOColor Trix” RGB-System Power LED Spot

High Brightness LED spot - 3 x 350mA

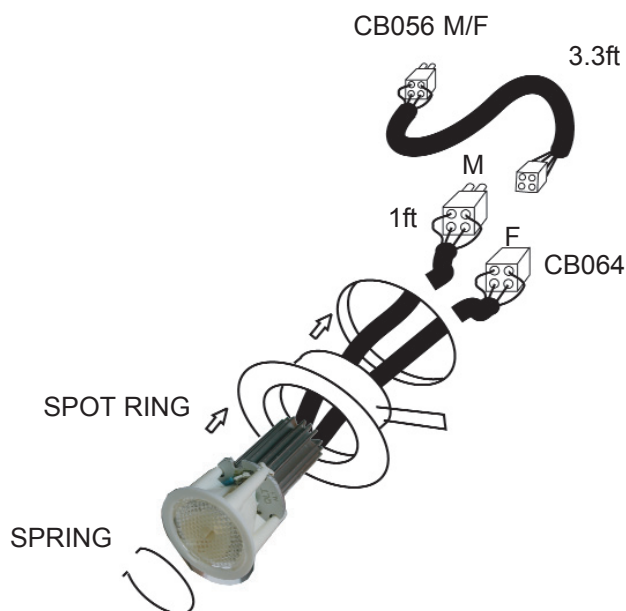
- Light power up 70 - 80 lumen
- Suitable for being built in standard Ø 1.3” downlights
- Delivered with 2 x CB064, 11.8” 4 pins cables (M/F) with AMP connectors
- Fitted with 1 LEDs type "tricolor 3 x 1W"



TRIOC T MR11
Difused

Model	W Equivalent Power	Lumen Type	Lux @1m (cd)*				V (typ.)	I (typ.)	Part Number
			Narrow	Medium	Wide	No Lens			
TRIOCT	5	70	-	350	120	-	3.6V	3 x 350mA	QT-TRIOCTX00

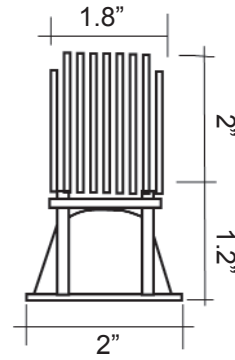
- Lens
- N - Narrow Diffused
 - M - Medium Diffused
 - W - Wide Diffused
 - F - Wide Flat Precision
 - R - Mini Narrow Diffused
 - O - Mini Medium Diffused
 - S - no lens



“TRIOColor Power” RGB-System Power LED Spot

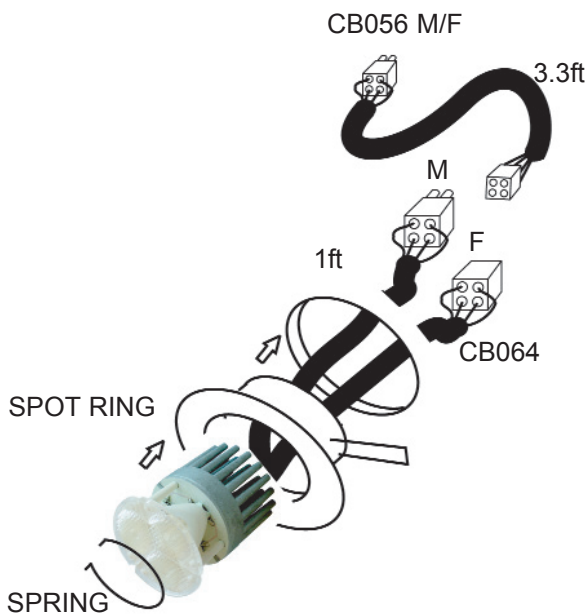
High Brightness LED spot - 3 x 3 x 350mA

- Light power up 230 - 300 lumen
- Suitable for being built in standard Ø 2” downlights
- Delivered with 2 x CB064, 11.8” 4 pins cables (M/F) with AMP connectors
- Fitted with 3 LEDs type “tricolor 3 x 1W”



TRIO P MR 16
Diffused

Model	W Equivalent Power	Lumen Type	Lux @1m (cd)*			V (typ.)	I (typ.)	Part Number	
			Narrow	Medium	Wide				No Lens
TRIOCP	16	210	-	1200	420	75	3.6V	3 x 350mA	QT-TRIOCPX00

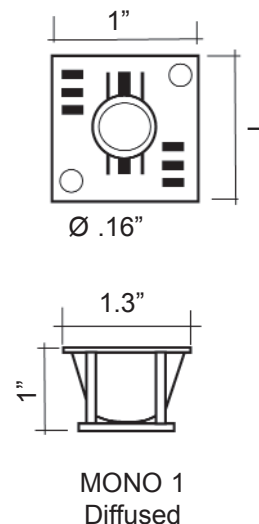


- Lens
- N - Narrow Diffused
 - M - Medium Diffused
 - W - Wide Diffused
 - F - Wide Flat Precision
 - R - Mini Narrow Diffused
 - O - Mini Medium Diffused
 - S - no lens

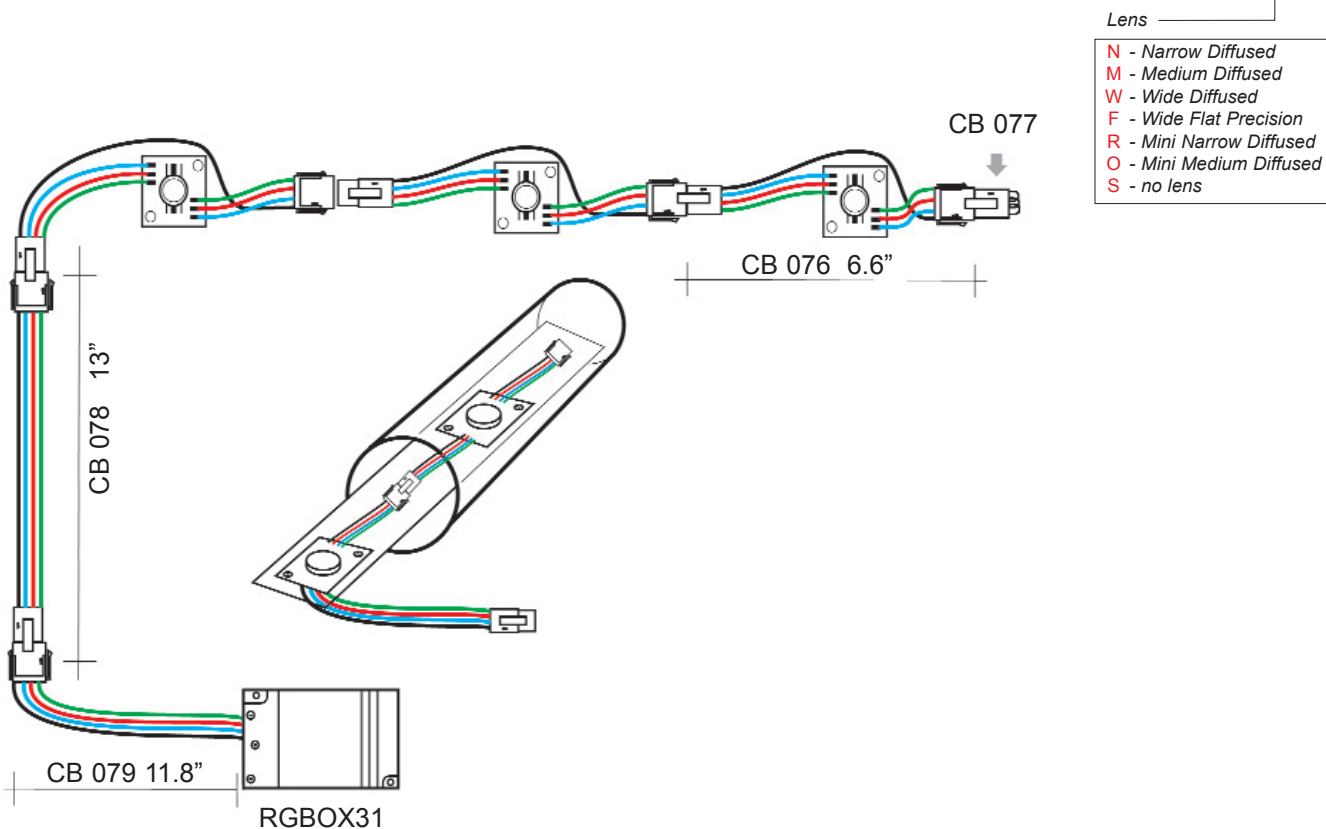
“TRIX” RGB - Tricolor Module Power LED Spot

High Brightness LED Module - 3 x 350mA

- Light power up 70 lumen
- Module fixing absolutely on metallic surfaces through screws and Loctite glue (Type 351 or 3872)
- Delivered with 2xCB076, 6” cables, and 4-pin Molex connectors (M/F)



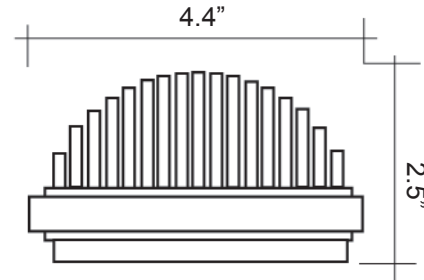
Model	W Equivalent Power	Lumen Type	Lux @1m (cd)*				V (typ.)	I (typ.)	Part Number
			Narrow	Medium	Wide	No Lens			
TRIX	5	70	-	-	130	25	3.6V	3 x 350mA	QT-TRIXX0000



“U115 Color RGB” RGB-System Power LED Spot

High Brightness LED spot - 5 x 3 x 350mA

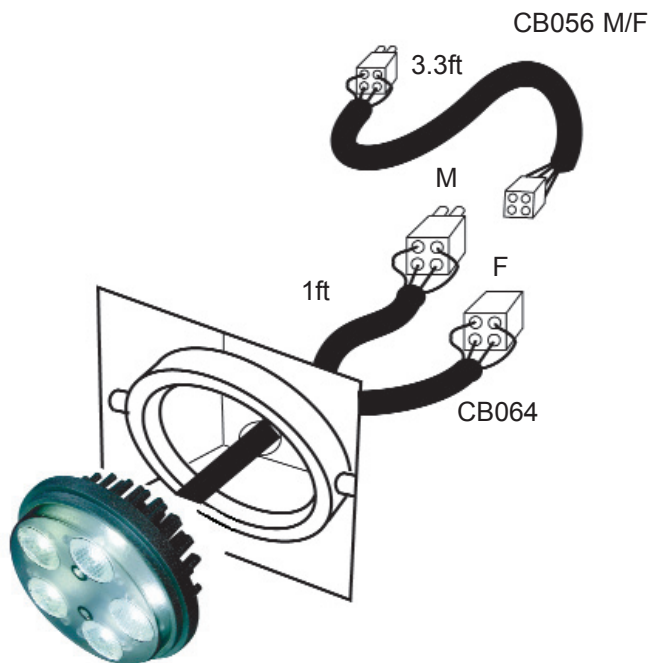
- Light power up 350 - 370 lumen
- Suitable for being built in standard AR111 downlights, Ø 4.4”
- Delivered with CB064, 4pin cables (M/F) with AMP connectors
- Fitted with 5 LEDs type "Tricolor 3 x 1W"



U115C - AR 111

Model	W Equivalent Power	Lumen Type	Lux @1m (cd)*			V (typ.)	I (typ.)	Part Number	
			Narrow	Medium	Wide				No Lens
U115C	26	350	-	620	400	-	10.2V	3 x 350mA	QT-U115C X 000

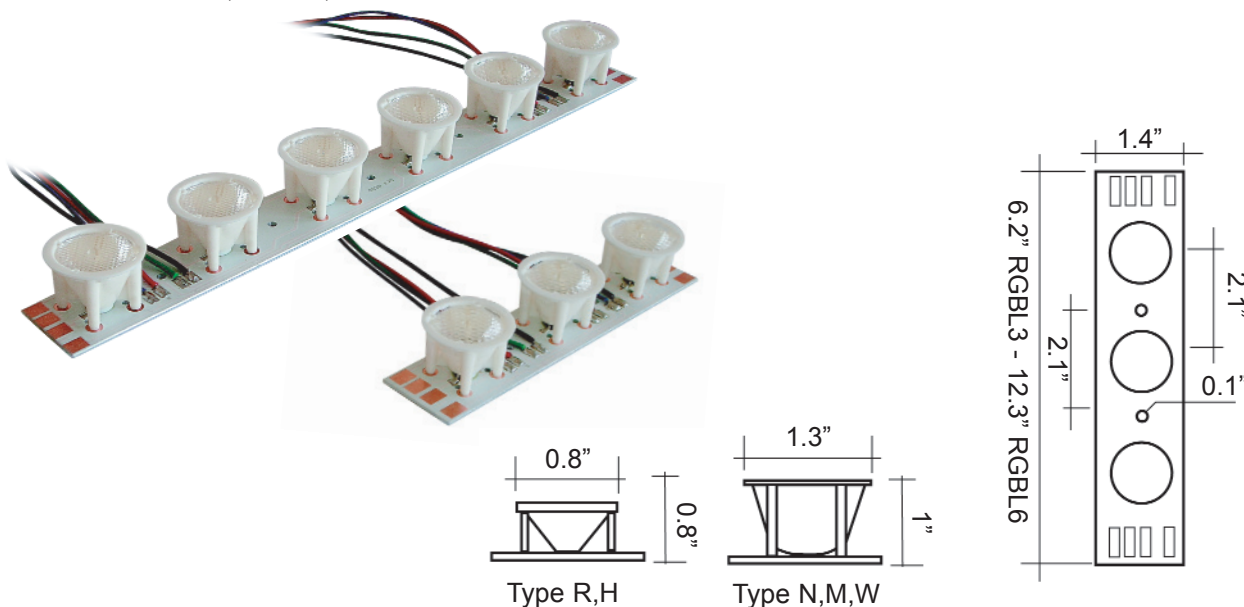
- Lens
- N** - Narrow Diffused
 - M** - Medium Diffused
 - W** - Wide Diffused
 - F** - Wide Flat Precision
 - R** - Mini Narrow Diffused
 - O** - Mini Medium Diffused
 - S** - no lens



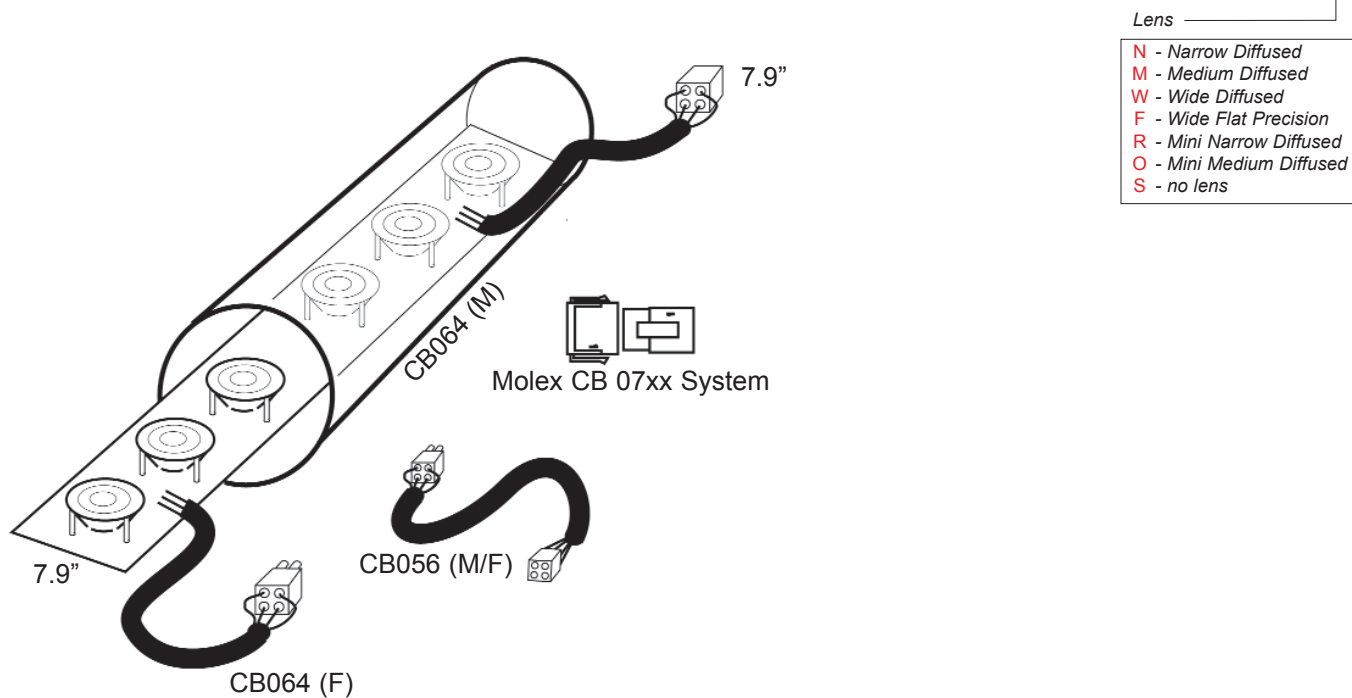
“RGBLine” RGB Power LED Strip Line

High Brightness LED strip line - 3/6 x 350mA

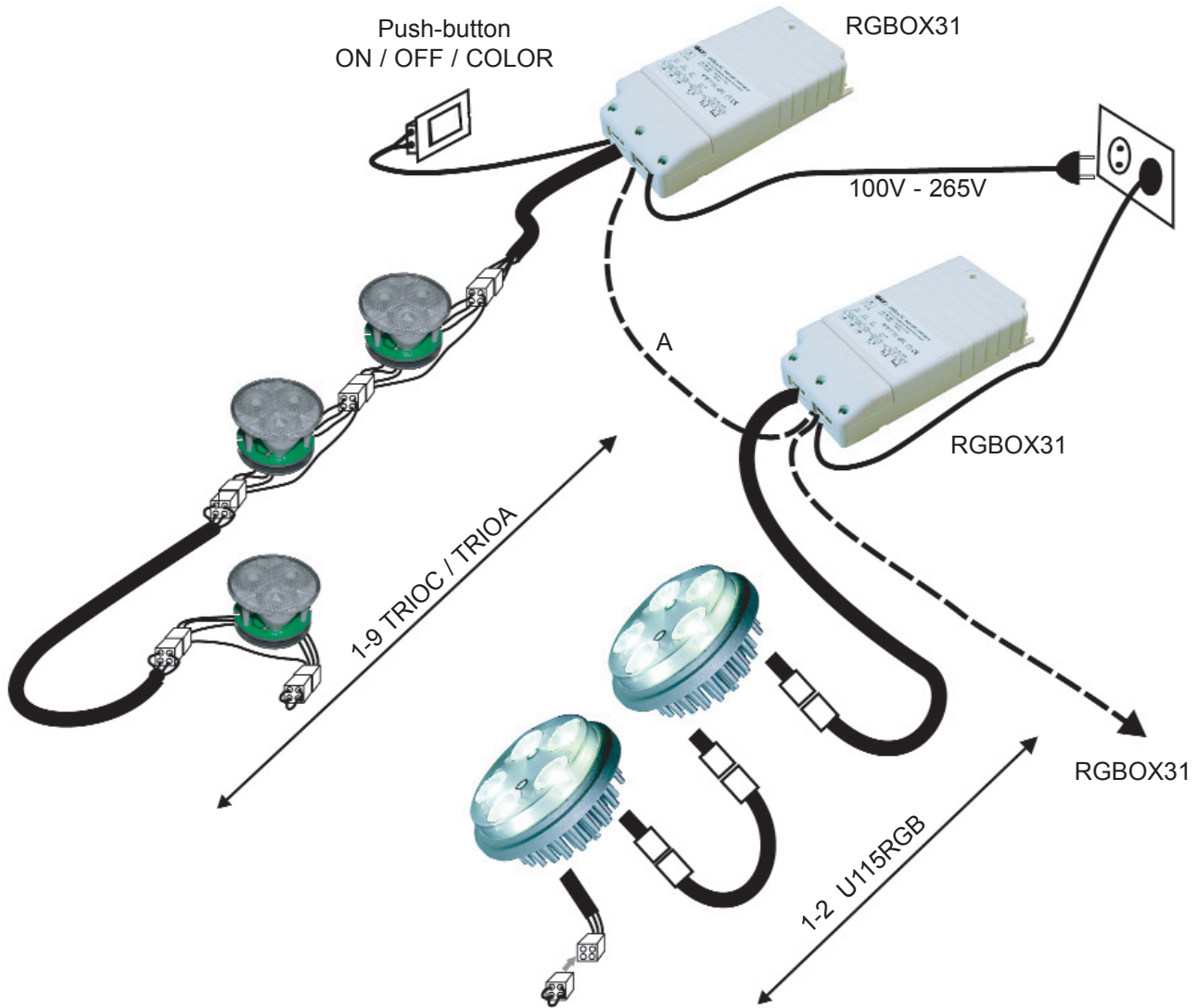
- Light power: 117 - 150 lumen for RGB3L, 230 - 300 lumen for RGB6L
- Suitable for colored linear lighting
- Delivered with 2 x CB064, 2 x 7.7” 4 pins cables (M/F) with AMP connectors
- Available also with CB077, CB078, CB079 cables and Molex connectors



Model	W Equivalent Power	Lumen Type	Lux @1m (cd)*				V (typ.)	I (typ.)	Part Number
			Narrow	Medium	Wide	No Lens			
RGB3L	9	130	1400	600	250	25	3.6V	3 x 350mA	QT-RGB03LX00
RGB6L	18	260	1400	600	250	25	3.6V	3 x 350mA	QT-RGB06LX00



“RGB” & “Natural Light” Kit Installation Example



□TRIOColor□ system

The diagram shows how to make High Brightness lighting systems with changeable light color. By using our "RGPIO31" driver, you can connect up to 9 pcs TRIOColor spots or up 2 U115RGB spots. As an alternative to TRIOColor spots you can use TRIOAmbient spots. Using a parallel connection of max. 25 drivers "RGPIO31" controlled by one or more push buttons, all the RGPIO units are synchronized by a polarized cable A.

“IR 1” Infra Red 1 Controller

IR Remote Control for RGBBox/DBox

·One push button to control all functions

Short push: switch on / switch off

Long push: color regulation

Two short pushes: white color

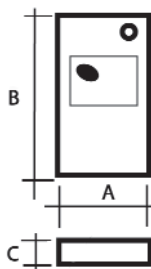
·Emission range: 20 - 33ft - Delivered without batteries, use 12V MN21

·The IR Receiver-Lens is suitable for being mounted into MR11 spot rings (Ø 1.4")

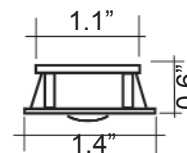
·Possible parallel connection between the IR Receiver-Lens and the push-buttons controlling the RGBOX device



IR 1 T

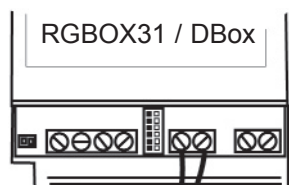


IR 1R RECEIVER



IR 1R

Model	Output / Input	Dimensions			oz.	Part Number
		A	B	C		
IR 1 T	36Khz IR	1.7" x 2.9" x 0.7"			1.0 oz.	QT-IR1T00000
IR 1 R	36Khz IR	Ø 1.4"			0.5 oz.	QT-IR1R00000



IR 1R Receiver

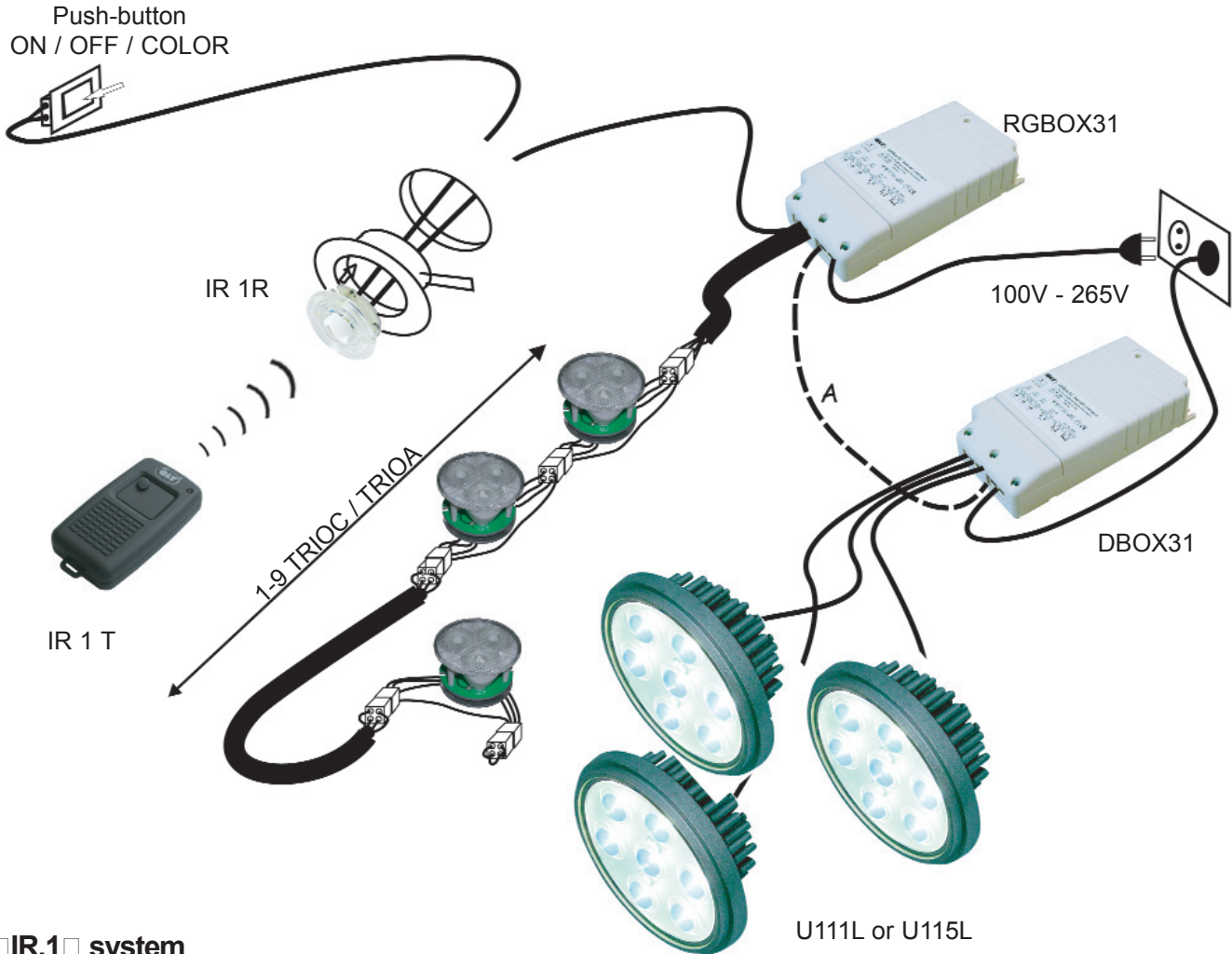
Spot ring MR11 included,
please specify color



IR 1T
Transmitter



“IR 1 - RGB / DBOX System” Kit Installation Example



□ IR.1 □ system

The scheme shows how to make High Brightness lighting systems controlled by IR-1 transmitter. Using our RBOX31 driver, you can connect up to 9 pcs, TRIOColor or TRIOAmbient spots and regulate the light colors.

Using the DBOX31 driver, it's then possible to regulate the intensity of light (Dimmer). A possible parallel connection of 25 drivers max. RBOX31 or DBOX31 can all be controlled by the IR 1 transmitter.

One push button to control all functions:

Short push: switch on / switch off

Long push: color regulation or dimming

Two short pushes: white color or max. light power.

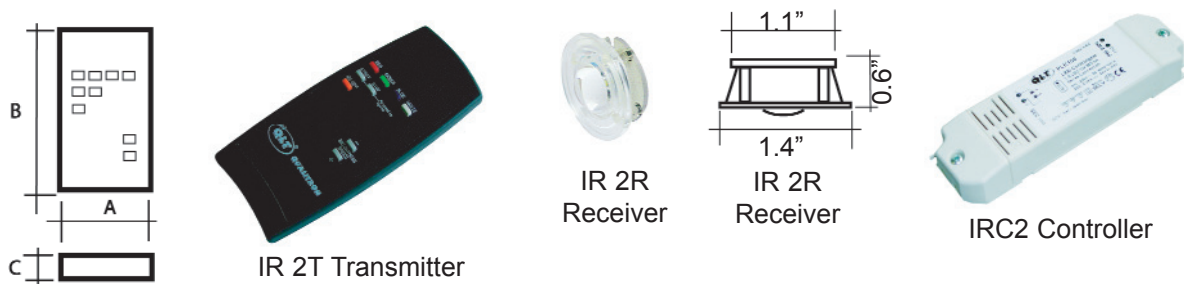
“IR2R” Infra Red 2 Controller

Multifunction IR Remote Control for RGBOX

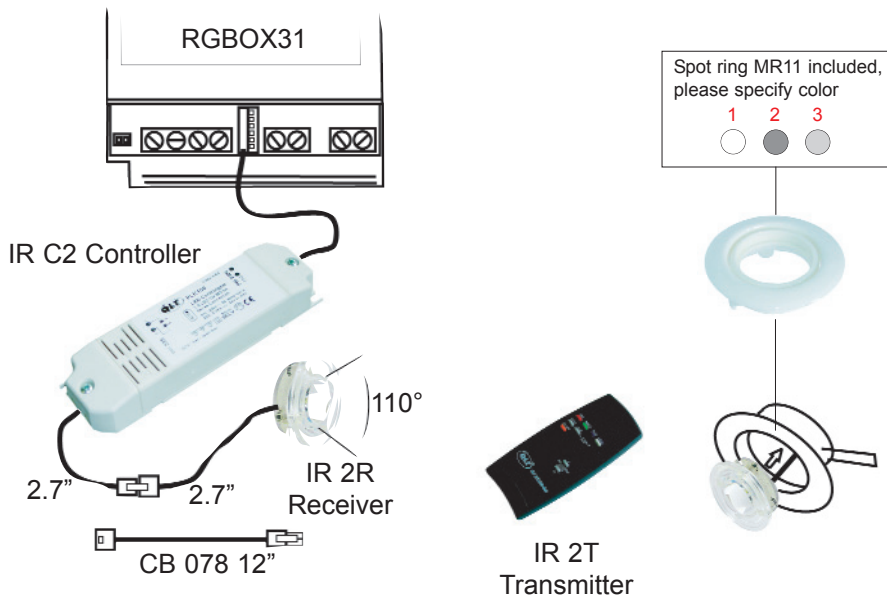
·9 push-buttons to control all functions:

- switch on/off**
- RGB colors**
- white color,**
- rainbow cycle**
- velocity**
- intensity**

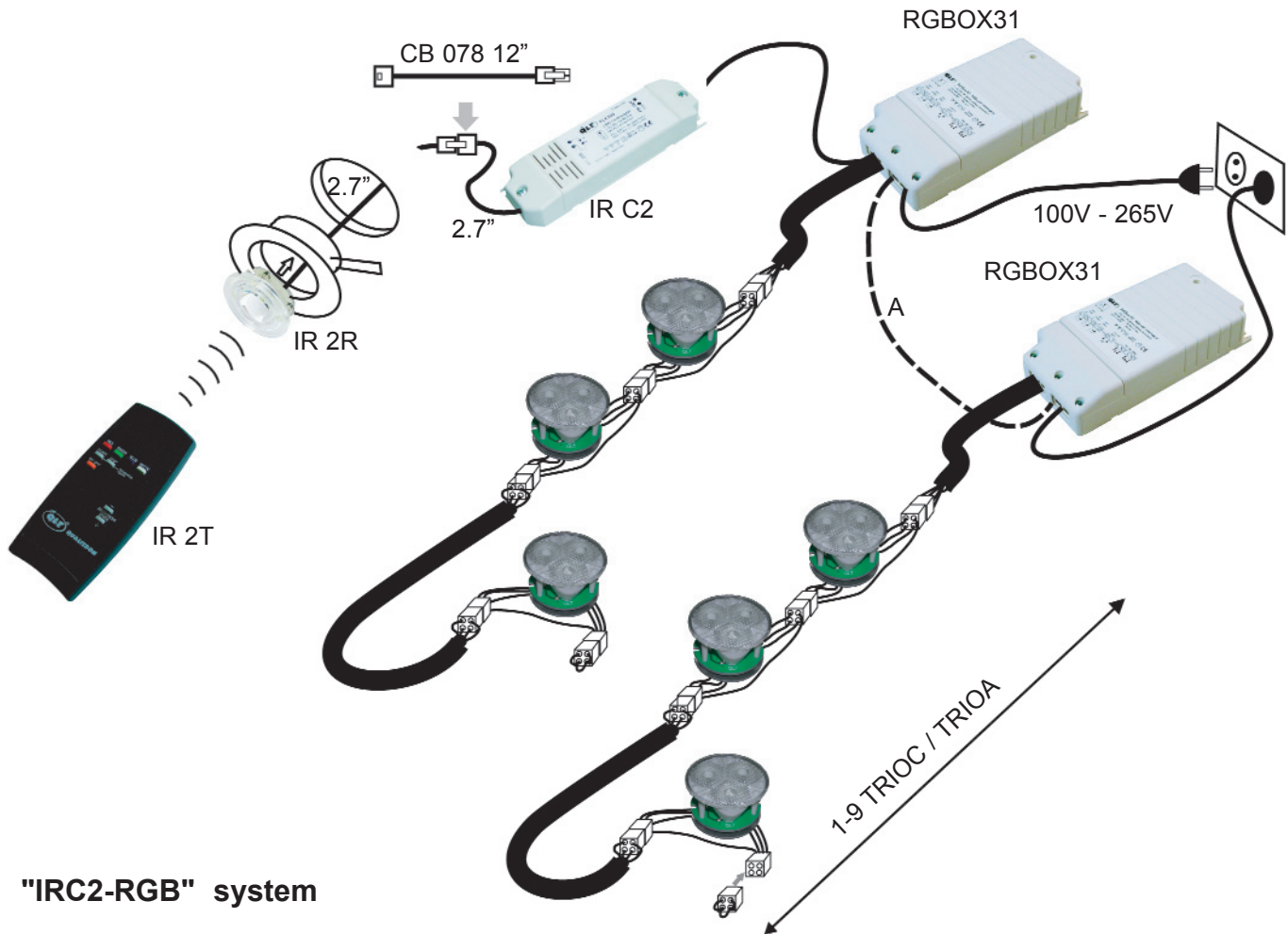
- Emission range: 20ft - 30ft
- Requires 2 1.5V AAA Batteries (*not included*)
- The IR Receiver-Lens is suitable for being mounted into MR11 spot rings (Ø 1.4")
(Controller board with PWM output for RGBOX included.)



Model	Output / Input	Dimensions			oz.	Part Number
		A	B	C		
IR 2 T	36Khz IR	1.7"	2.9"	0.7"	1.0 oz.	QT-IR2T00000
IR2R (IR2R + IRC2)	36Khz IR	Ø 1.4"			0.5 oz.	QT-IR2R00000



“IRC2” RGB System



"IRC2-RGB" system

The diagram shows how to make High Brightness lighting systems with changeable light color by using our "RGBOX31" driver. It is possible to connect up to 9 TRIOColor spots for a maximum power of 27W with a universal supply tension 100V/AC - 265V/AC. As an alternative to TRIOColor spots, you can use TRIOAmbient spots in parallel connection with up to 25 RGBOX31 drivers max. All can be controlled by the IR 2 system.

9 push- buttons to control all functions:

- switch on*
- RGB colors*
- white color*
- rainbow cycle*
- velocity*
- intensity*

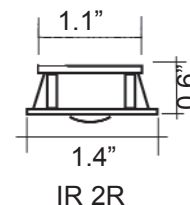
“IR3R” Infra Red 3 Controller

Multifunction IR Remote Control for 24 V Systems

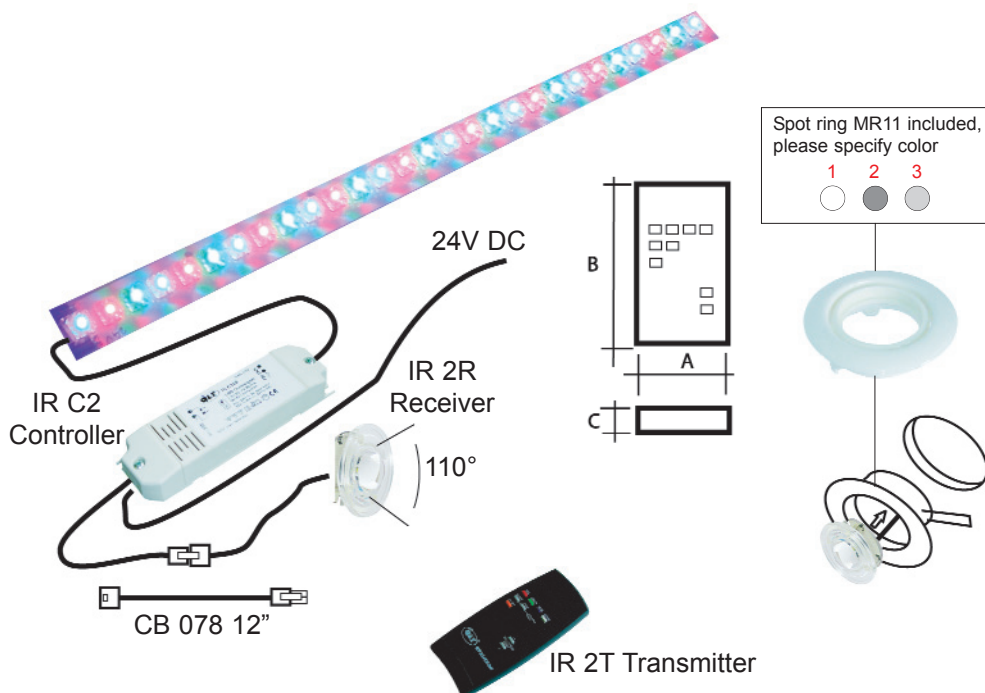
·9 push- buttons to control all functions:

- switch on**
- RGB colors**
- white color**
- rainbow cycle**
- velocity**
- intensity**

- Emission range: 20ft - 33ft.
- Requires 1.5V AAA Batteries (*not included*)
- The IR Receiver-Lens is suitable for being mounted into MR11 spot rings (Ø 1.4”)
- Controller board IRC3 with PWM output 24V constant voltage.



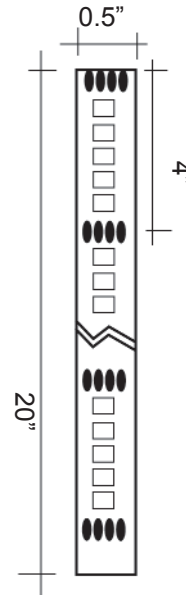
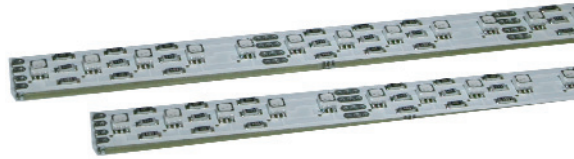
Model	Output / Input	Dimensions			oz.	Part Number
		A	B	C		
IR 2 T	36 Khz I.R.	2.4"	5.5"	0.8"	1.0 oz.	QT-IR2T00000
IR3R (IR2R + IRC3)	36 Khz I.R.	Ø 1.4"			0.5 oz.	QT-IR3R00000



“STRIP & Custom” LED Strip Custom Designed LED Applications

Modular 24V RGB Stripe Lines

- 4” stripe modules (STRIP25) - Terminals to be soldered
- Connection in series mode - On request, cabling for 10” M/F
- Max. consumption: 300mA / 600mA for every 19.5” stripe and 600mA for 5LED module (4”)
- Luminous flux: 2 lm every LED (white color), 50lm every stripe



Model	Output / Input	Dimensions			oz.	Part Number
		A	B	C		
STRIP 25	24V DC 300mA	19.7"	0.5"	0.2"	1.8 oz.	QT-STRIP2500
STRIP 50	24V DC 600mA	19.7"	0.5"	0.2"	1.8 oz.	QT-STRIP5000

ETI's Technical and Project Department is at the customers' complete disposal for the realization of LED applications.

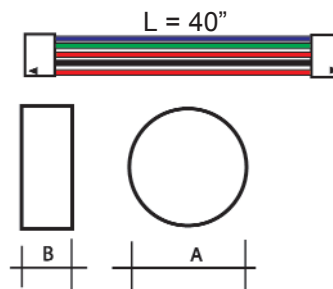


“DMX1” DMX Interface for RGBBox

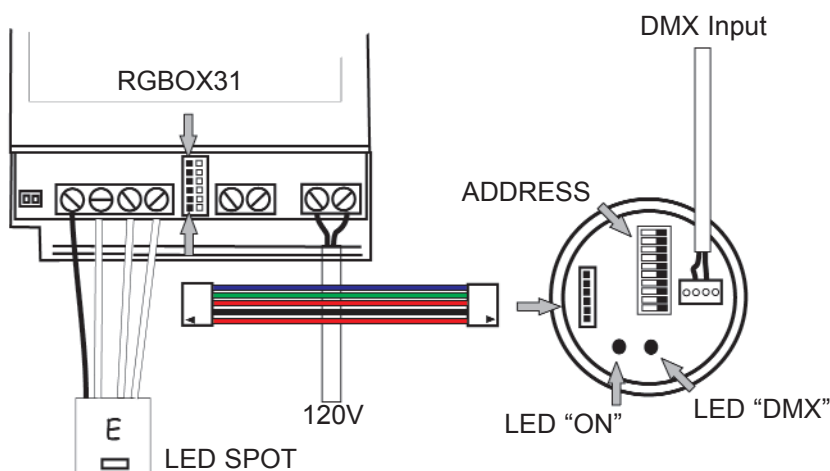
DMX interface for RGB systems

- DMX512 interface to be combined with PWM driver RGBOX
- Input supply by polarized connection cable - IP00 - Insulation class II
- 9 DIP switches to select the first address (3 channels)
- Self-test to check all functions.
(when illuminated, the 2 LEDs on the board indicate ON mode and receiving DMX signal.)

(supply connection cable for driver RGBox included)



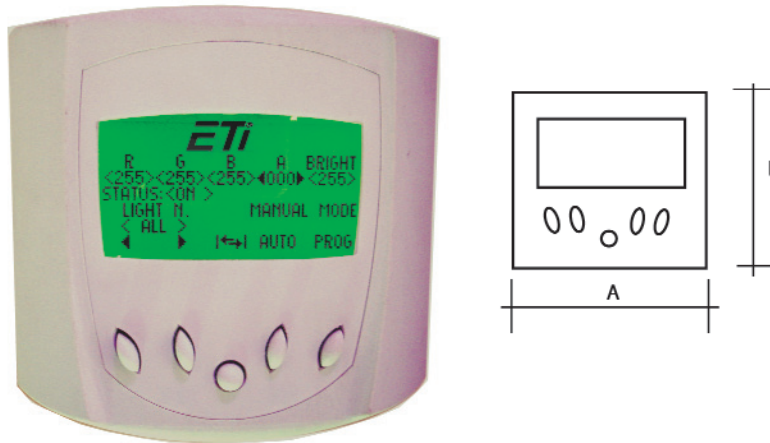
Model	Input	Output	Dimensions A x B	oz.	Part Number
DMX1	DMX512	3 X PWM 200Hz	2.0" x 0.8"	0.7 oz.	QT-DMX00000



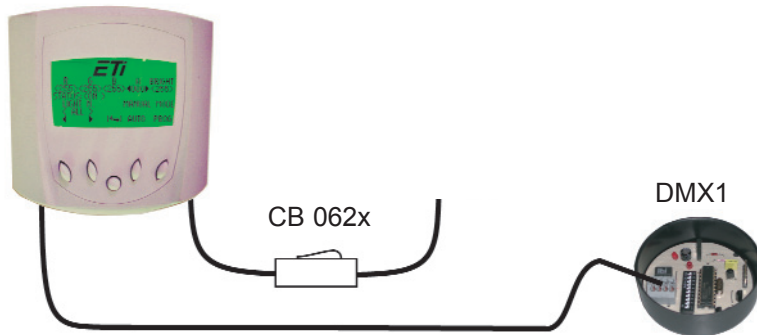
“DMXC” DMX Generator Controller

DMX generator controller for RGB systems for RGB and dimmable systems

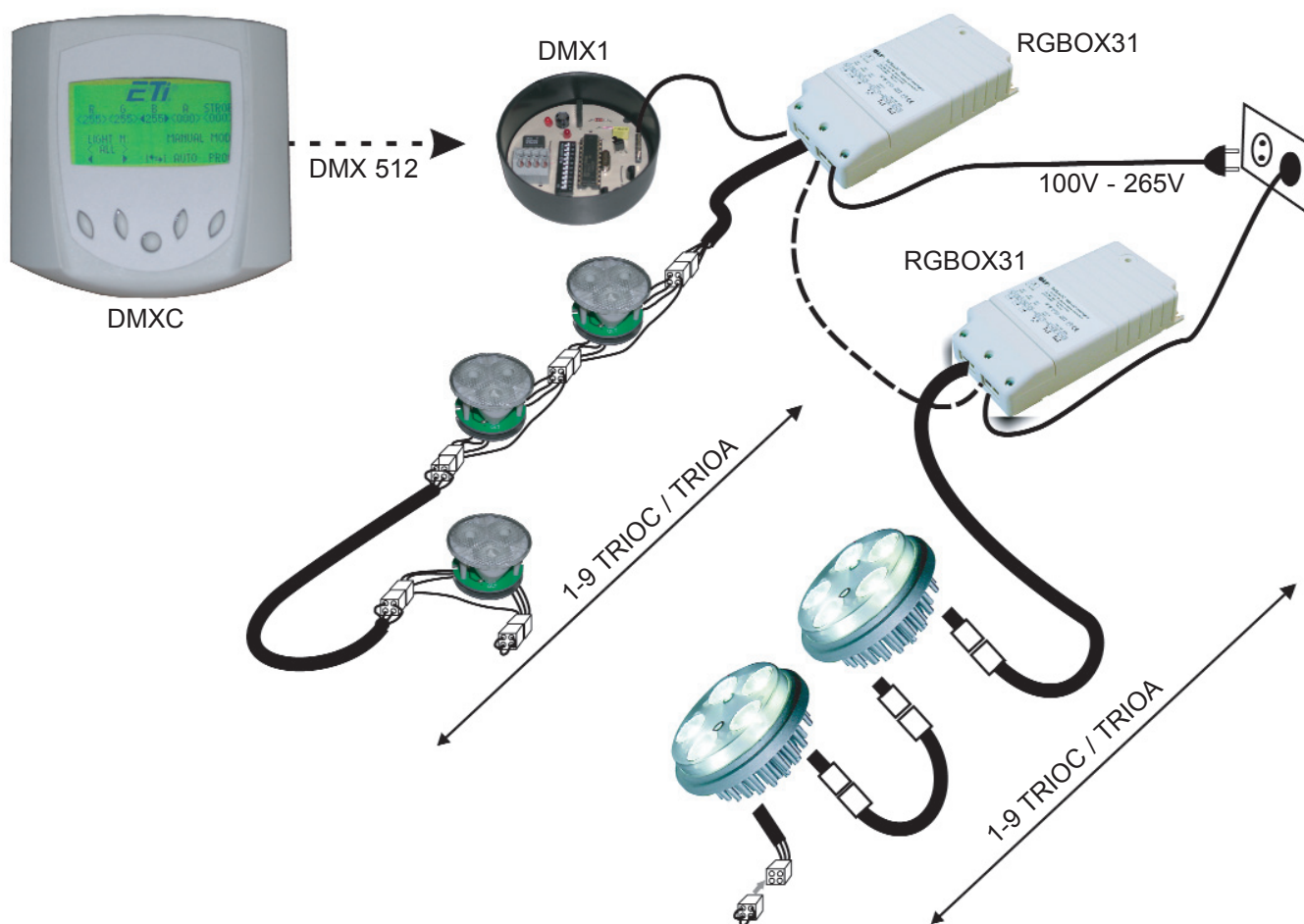
- DMX512 generator to control RGB systems
Fitted with PLP low-tension driver - IP20 - Insulation class II
- Suitable to control up to max. 6 independent DMX addresses.
- Green rear lighted LCD display - 128 x 64 - visualizing all levels and functions.
- Functioning in RGB manual mode or automatic mode through "scene program"
- Function modes available: on/off and dimmer of all channels contemporary



Model	Input	Output	Dimensions A x B	oz.	Part Number
DMXC1	DMX512	6ch 0 - 255	3.8" x 3.8"	0.7 oz.	QT-DMXC100000



“DMX - RGB System” Kit Installation Example



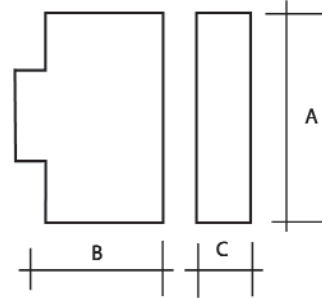
□DMX□ system

The scheme shows how to make High Brightness lighting systems with changeable light color. By using our "RGBOX31" driver, you can connect up to 9 TRIOColor spots or up to 2 U115RGB. As an alternative to TRIOColor spots, you can use TRIOAmbient spots. Parallel connection of max. 25 "RGBOX31" drivers can all be controlled by the DMX-PWM interface, type DMX1, and by the signal DMX512 produced by the DMXC general controller.

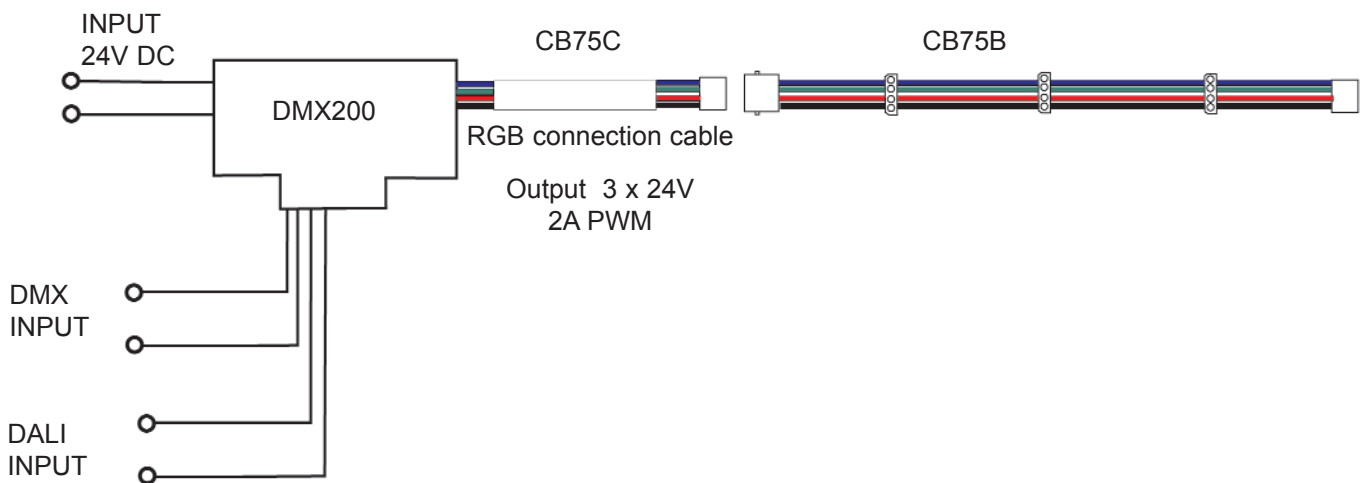
“DMX200” DMX - DALI Universal PWM Controller

DMX/DALI interface for 24V systems

- Protocol interface from DMX/DALI to PWM 24V
- Input: 24V DC - IP30 - Insulation class II
- DIP switches to select DMX address - Signal led inside
- Separate inputs for DALI and DMX
- High output current, max 2A by every channel. 150W in total.
- Possible connection with RGB STRIP, TRIOC-DC, U115RGB-DC.



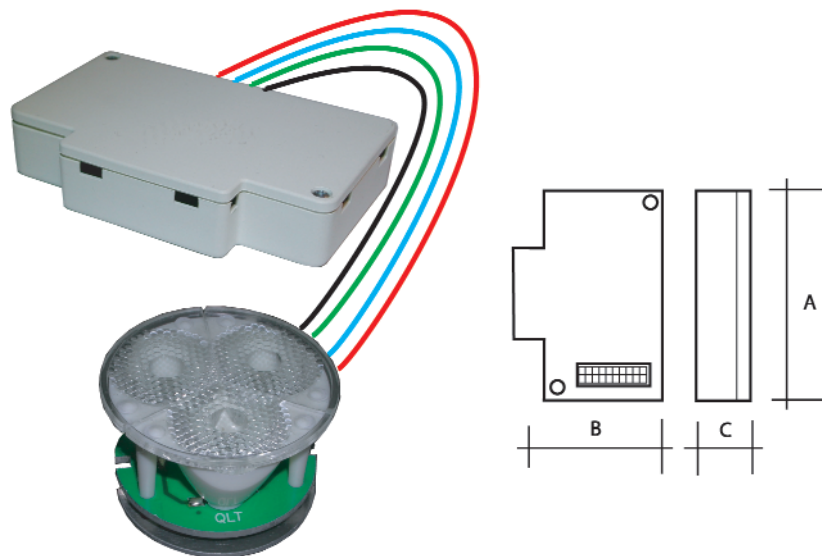
Model	Input	Output	Dimensions A x B x C	oz.	Part Number
DMX200	DMX512 / DALI	3 x PWM 200Hz	4.3" x 2.6" x 0.9"	1.7 oz.	QT-DMX200000



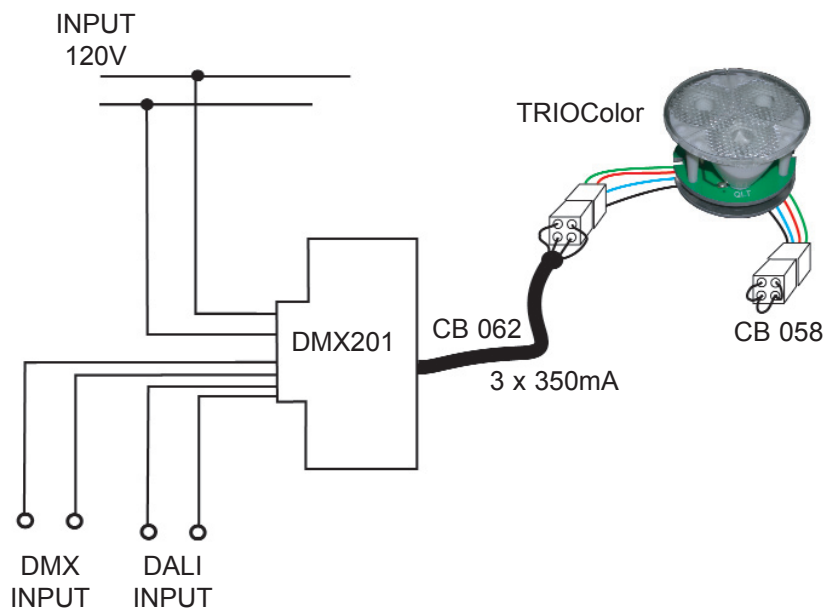
“DMX 201” DMX - DALI TRIColor Controller

DMX/DALI interface for 1 TRIOColor / Ambient

- Protocol interface from DMX/DALI to PWM 3 x 350mA
- Input: 90V/AC - 260V/AC - IP30 - Insulation class II
- DIP switches to select DMX address - Signalization led inside
- Separate inputs for DALI and DMX



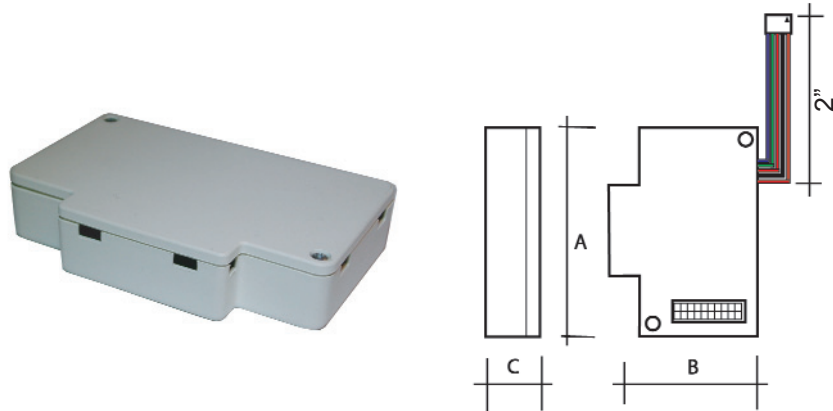
Model	Input	Output	Dimensions A x B x C	oz.	Part Number
DMX201	DMX512 / DALI	3 x 350mA	4.3" x 2.6" x .09"	1.7 oz.	QT-DMX201000



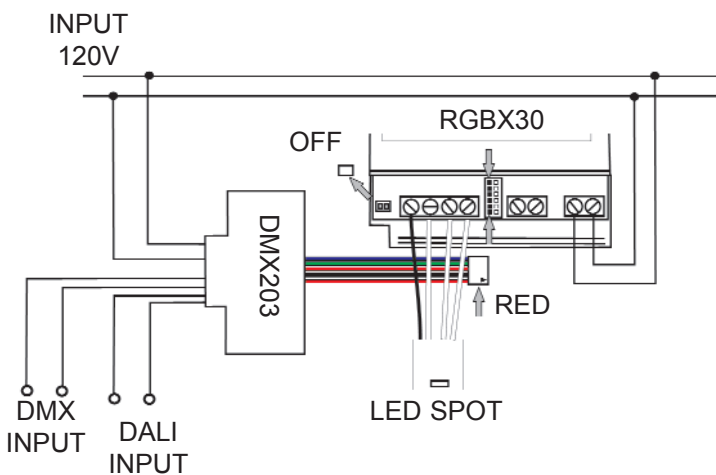
“DMX 203” DMX - DALI Universal Interface to PWM

DMX/DALI interface for RGB systems

- Protocol interface from DMX/DALI to PWM 5V
- Input: 90260V AC - 260V AC - IP30 - Insulation class II
- DIP switches to select DMX address - Signalization led inside
- Separate inputs for DALI and DMX
- Possible connection to our RGBOX31 (max. 50 devices).



Model	Input	Output	Dimensions A x B x C	oz.	Part Number
DMX203	DMX512 / DALI	3 x PWM 200Hz	4.3" x 2.8" x 0.9"	1.7 oz.	QT-DMX203000



Color Magic System

This revolutionary system provides the ability to configure lighting systems with Power LEDs in a simple manner with a minimum number of components. Designed for professional lighting applications, this system is made up of one high power driver with PWM 24V output on the three RGPIO50 channels. The output voltage is transferred to the RGB spots through a 4pin buss cable. The small constant current converters are fitted directly along the buss cables. This allows the installation of different LED modules on the same control circuit. It is possible to add more RGPIO50 drivers to the installation of high power lighting systems. The color control can be carried out through one or more simple push buttons or a DMX1 interface. The RGPIO50 can be controlled by our remote control systems type IR1R or IR2.

Other application possibilities:

DMX2 interface

Push buttons

IR1R receiver or DMX signal with external 24V Driver.

IRC3 interface, connect the IR2R receiver with external 24V Driver.



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