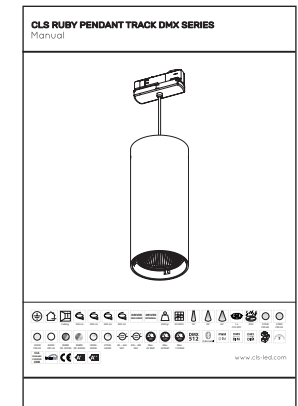
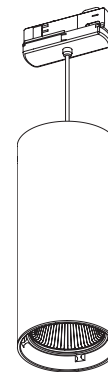


Index	2	Installation	4
Safety information	2	Reflector replacement	5
Content	2	Programming	6
Technical	3	Bluetooth by Casambi	6
Specifications	3	Programming table	7
Accessories	3	List of symbols	8

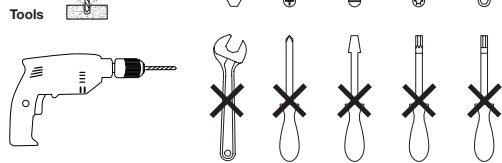
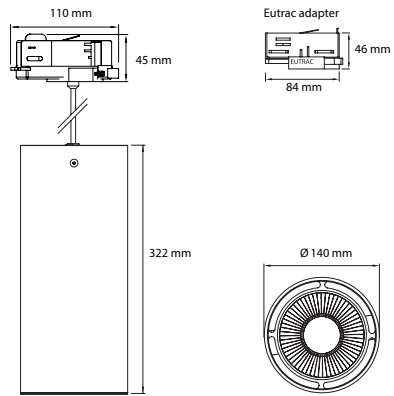
SAFETY INFORMATION

Make sure all connectors are connected properly	Use a source of AC power that complies to local electrical codes	Block access below the work area when maintaining the unit	Don't modify or install genuine parts on this product	Don't install in a flammable or explosive area	Warning! Some surfaces can be hot

CONTENT



Ceiling	200 cm	400 cm	600 cm	800 cm	DRIVER INCLUDED	DRIVER INTERNAL	3500 gr	50.000 h	16°	49°	63°	1 x CLS DCC	IP20	2700K CRI>92	2700K CRI>92	
3000K CRI>92	4000K CRI>92	RGBW (W:3000K)	RGBW (W:4000K)	1800K-4000K	2700K-6500K	80-264 VAC	200-240 VAC	Max. 45 Watt	Max. 60 Watt	Max. 110 Watt	DMX 512	CAS+MBI	PWM DIM	DMX DIM	DMX DIM	5 YEAR WARRANTY



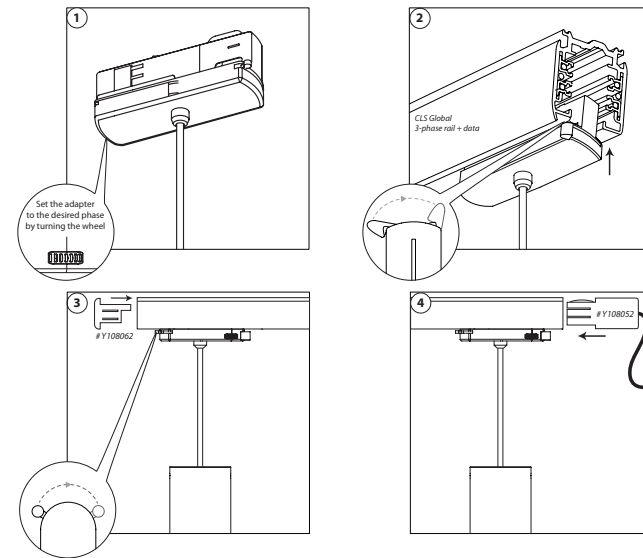
SPECIFICATIONS

LED:	High Power LED or CLS DCC
Available colours:	CRI>80: 2700K CRI>92: 2700K, 3000K, 4000K (only for the 7 - 9 serie)
Colour changing:	RGBW (w: 3000K) & RGBW (w: 4000K)
Tunable White:	1800K - 4000K & 2700K - 6500K
Lenses:	16°, 49°, 63°
Power supply:	200 - 240 VAC
Colour changing & TW:	80 - 264 VAC
Power consumption:	7 serie: Max. 45 Watt 8 serie: Max. 60 Watt 9 serie: Max. 110 Watt
Colour changing & TW:	9 serie: Max. 110 Watt
Housing:	Anodised aluminium black or white coated
Weight:	3500 gr
IP value:	IP20
Cable length:	200, 400, 600 or 800 centimeters
Measurements:	322x 140 mm (h x ø)
Ambient temperature:	-10° C till +40° C

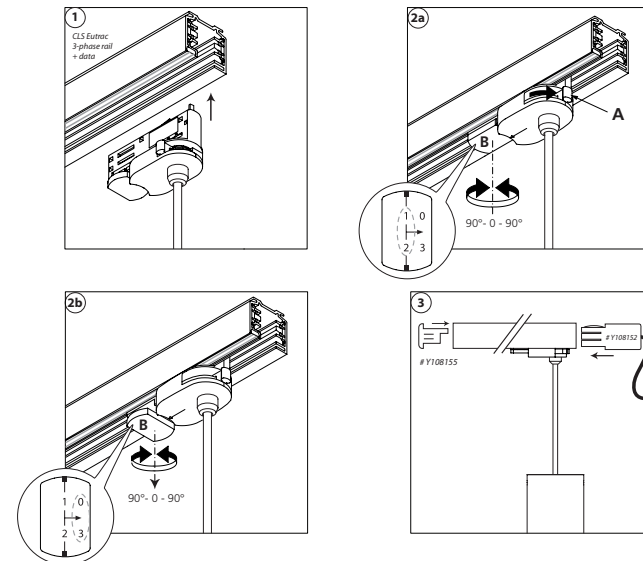
ACCESSORIES

Y108601	CLS Ruby reflector Spot
Y108602	CLS Ruby reflector Medium
Y108603	CLS Ruby reflector Flood
Y108610	CLS Ruby honeycomb louvre
Y106017	CLS Magnet for programming, 5 pcs
122200	CLS D-ta DMX addresser

Global adapter

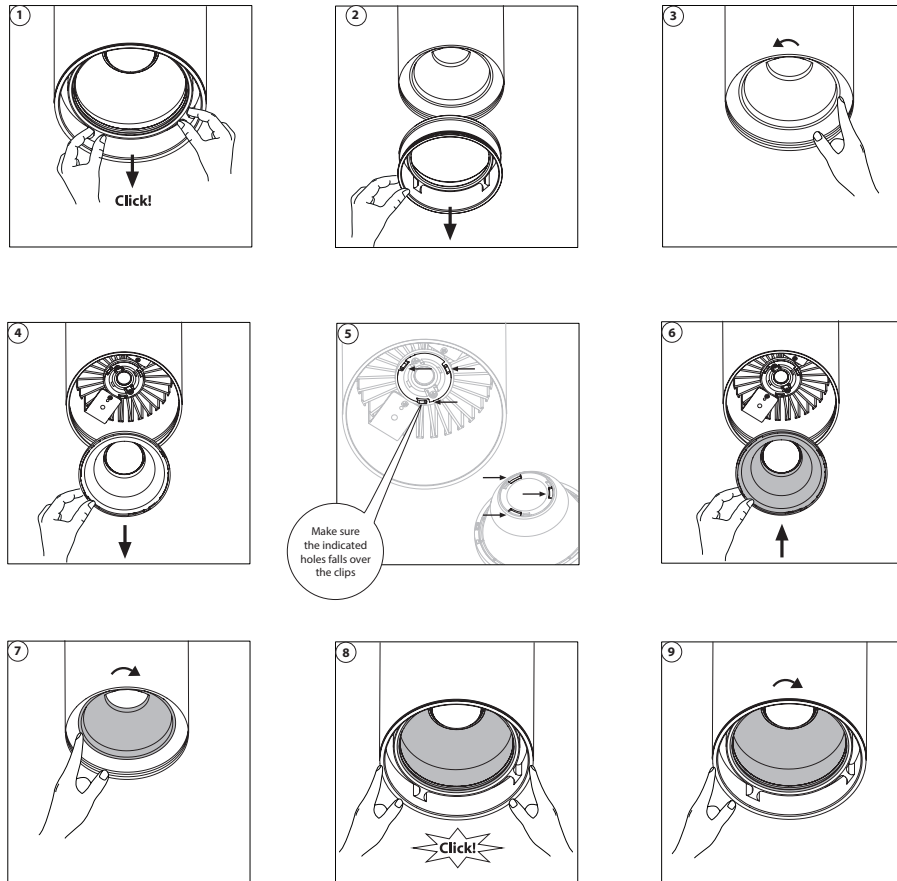


Eutrac adapter



REFLECTOR REPLACEMENT

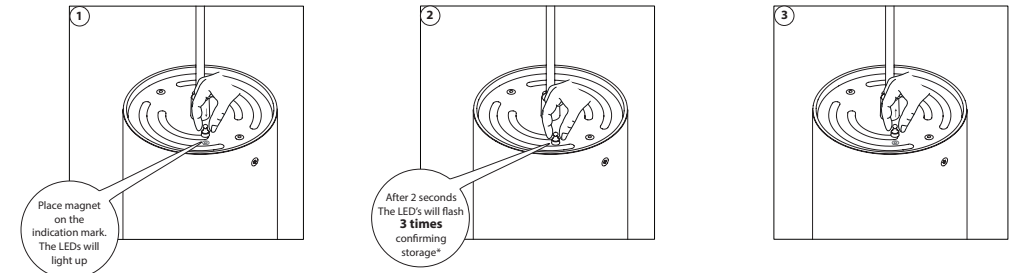
PROGRAMMING



All settings can be configured via DMX. Settings can be configured at once or separately. When one or a couple settings needs to be changed just leave all other setting values zero. This keeps those settings unchanged. Please check the table for more information.

Always use a DMX controller with digital interface. If not available, you can purchase the CLS D-ta DMX addresser unit (#122200).

First make sure to set the DATA on the DMX controller. To program the setting into the LED fixture follow the next steps.



* If all LEDs flash **10 times**, something went wrong. Please try again. If the problem continues to occur, please contact your local sales distributor.

BLUETOOTH BY CASAMBI

For Casambi controlled fixtures, see the manual of Casambi. The Manual can be found on our CLS website, in the Downloads section.

Or use the link below:

https://www.cls-led.com/wp-content/uploads/cls-products/CLS_CASAMBI/MANUAL/Manual_Casambi_controlsistem_EN.pdf

PROGRAMMING TABLE

LIST OF SYMBOLS

PROGRAMMING TABLE				
DMX	Function	Data	Parameters	Description
CH1	Set address 001 to 255	0	0 = no change *	Use this DMX channel to set address from 001 to 255. The configured DMX address is called "n"
		1...255	DMX address = 1...255	
CH2	Set address 256 to 508	0	no change	Use this DMX channel to set address from 256 to 508. The configured DMX address is called "n"
		1...255	DMX address = 256...508	
CH3	Static behavior	0	no change	If no DMX is present the fixture will respond like set in this function.
		1	last DMX value *	
		2	output off	
		3	load static values	
CH4	Soft dim	0	no change	When dynamic softdim is activated an extra DMX channel behind the colours and/or Master controls the soft dim reaction. If fixed no extra DMX channel is used.
		1	off *	
		2	dynamic	
		3-250	fixed interpolation delay	
CH5	Master control	0	no change	If master is first channel is selected the channel will be DMX channel "n". If master is last channel is selected the channel will be "n+x" ("x" is calculated in the output patch).
		1	no master used *	
		2	master is first channel	
		3	master is last channel	
CH6	Output 1 patch	0	no change	Each output channel can be patched to respond to the desired DMX channel. This enables the user to mix up the colours according to the controller that is used.
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH7*	Output 2 patch	0	no change	Example: all outputs are patched as 1 All outputs will be controlled by DMX channel "n". If master is used total DMX channels will be 2 otherwise it uses 1 channel ("x" = 1).
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH8*	Output 3 patch	0	no change	Example: output 1&2 are patched as 1 and 3&4 are patched as 2 Output 1&2 will be controlled by DMX channel "n". Output 3&4 will be controlled by DMX channel "n+1".
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH9*	Output 4 patch	0	no change	If master is used total DMX channels will be 3 otherwise it uses 2 channels ("x" = 2).
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH10	Static output 1	0	no change	Each output channel can be set to a static intensity.
		1	output off	
CH11*	Static output 2	0	no change	If no DMX is present and Static behavior is set to "load static values". The outputs will be set to the configured intensity values.
		1	output off	
CH12*	Static output 3	0	no change	
		1	output off	
CH13*	Static output 4	0	no change	
		1	output off	
CH14*	Load default settings	0	no change	This function resets all settings to the Factory setting.
		1	load Factory settings	
CH15	Input Resolution setting	0	no change	In 16 bit mode 2 channels are used per colour. First channel is rough channel, second channel fine. 16 bit mode is only available in DRIVE mode 2.
		1	8 bit *	
CH16	Drive mode setting	0	no change	You can set the frequency of the PWM for best compatibility with Camera Systems. However, the highest resolution of the dimming curve will be at the lowest frequency. Option 1 can be used to be compatible with older installation and new fixtures.
		1	compatible with version < 2020	
		2	PWM frequency 0.7kHz *	
		3	PWM frequency 1.4kHz	
		4	PWM frequency 2.8kHz	
5	PWM frequency 5.6kHz			

* Default setting

CHXX* Not applicable on the Ruby DMX single colour

	Protection class One, two or three		Retail & Food LED modules Clothing, furniture, kitchens, jewellery, shoes, bread, meat, fish and vegetables & fruit.
	Application area Indoor or outdoor		Colour Available colours: Amber, blue, red or green
	Application area Floor, wall or ceiling		White colour temperature In different Kelvin values: Cold white, neutral white, warm white or extra warm white
	Swivel Fixture is horizontally rotatable, indicated in degrees		Curve Minimal bending curve in centimeters
	Swivel Fixture is vertically rotatable, indicated in degrees		Cutting length Indicated by the cutting marks
	Multiple connection Daisychain connectivity		LED pitch Pitch between the LEDs in millimeters
	Installation depth in centimeters		Power supply In VDC, VAC or milliAmpere
	Installation size in centimeters		Power consumption In VA or watt
	Cable length Maximum cable attached to the fixture in centimeters		Dimmable 1-10 Volt, Phase, individual, DMX dimmable or DALI
	Driver Inclusive or exclusive Internal or external		PWM dimming Traditional PWM dimming, DMX analog or DMX Hybrid dim
	Weight in grams/kilograms		Bluetooth controlled By Casambi
	Pressure Maximum pressure on the fixture in kg/cm²		Magno dimming Accurate dimming from 100 - 1% by using a magnet
	Lifespan Of the light source in hours		Dynamic Control Dynamic Power Control or Dynamic Temperature Control
	Lenses Available lenses, indicated in degrees		DMX input Fixture works on DMX512 protocol or Wireless DMX
	Performance Zoom Adjustable beam angle		Combined product Compose your own fixture
	LEDs Kind of LED used in the fixture		Warranty 3 or 5 years warranty on the product
	Plug & play Easy connection using the SmartConnect system		Conformité Européenne CE marking for free marketability of industrial goods within the EU
	IP value Ingress Protection classifies the degrees of protection provided against the intrusion of the product		Energy label
	Colour changing RGB, RGB-W, RGB-A, AWB or Tunable White		Lightsource Equipped with a CLS, Bridgelux or a Xicato LED module