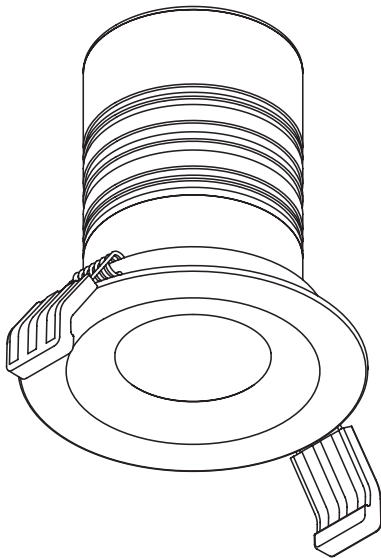


Index	2	Programming	5
Safety information	2	Programming table	6
Content	2	Factory settings	6
Technical	3	Wiring diagram	7
Specifications	3	Accessories	7
Installation	4	List of symbols	8



SAFETY INFORMATION

Do not stare into the LED

Qualified technician

Ambiance
Max. 40°

Disconnect the power supply before installing or maintaining

Make sure all connectors are connected properly

Use a source of AC power that complies to local electrical codes

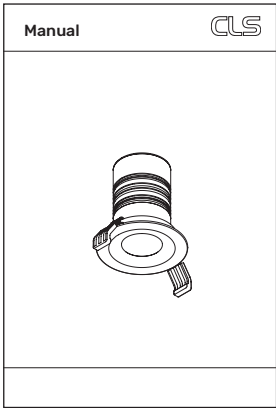
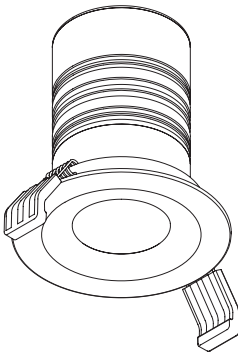
Block access below the work area when maintaining the unit

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 mm

75 mm

360°

DRIVER EXCLUDED

DRIVER INTERNAL

396 gr

50.000 h

10°

24°

31°

13 x 40°

4 x High Power

IP20

RGBW

RGBA

2700K-5700K

1800K-4000K

24 VDC

Max. 10 Watt

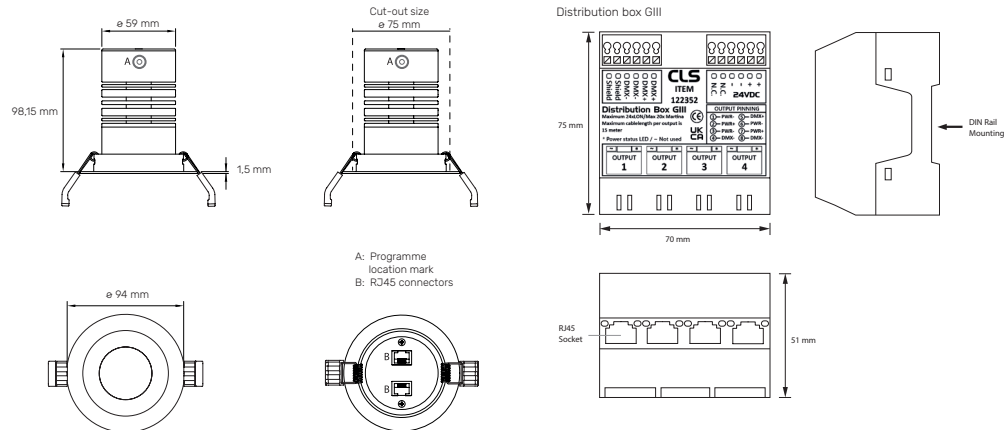
DMX 512

3 Year Warranty

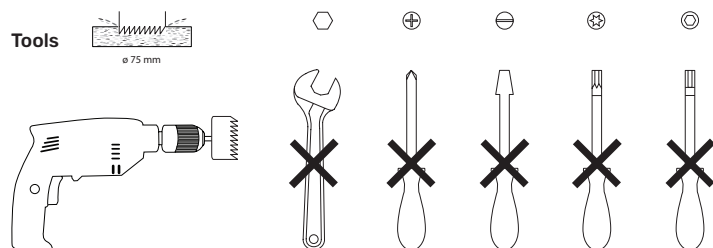
CE

TECHNICAL

INSTALLATION

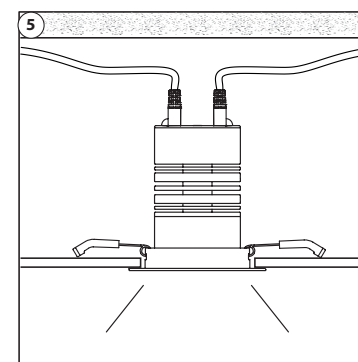
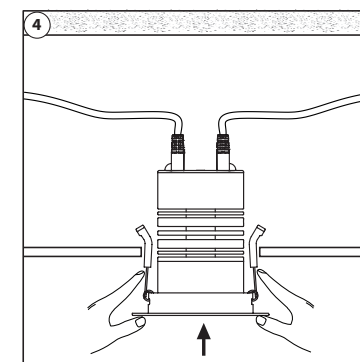
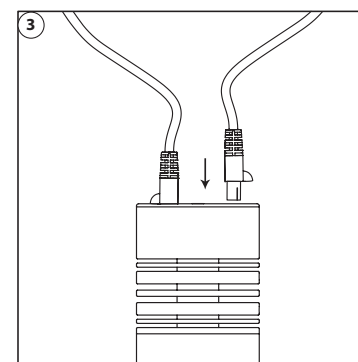
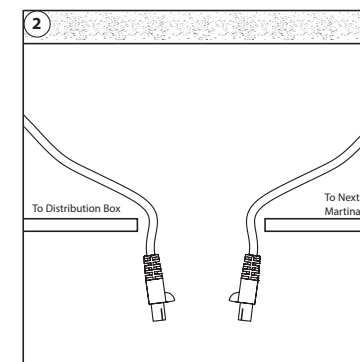
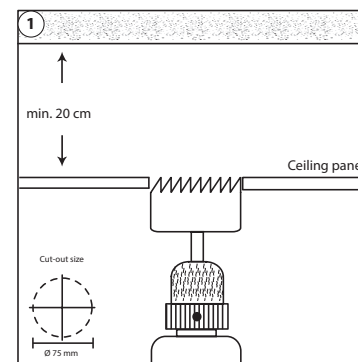


Tools



SPECIFICATIONS

LEDs:	4 x High Power LED
Colour changing:	RGBW or RGBA
Tunable White:	2700K-5700K or 1800K-4000K
Beam angles:	10°, 24°, 31°, 13 x 40° or 60° diffused
Input voltage:	24 VDC
Power consumption:	Max. 10 Watt
Housing:	Massive CNC aluminum, black or white coated
IP value:	IP20
Measurements:	ø 94 x 98,15 mm (øxh)
Weight:	396 gr
Input connector:	RJ45
Output connector:	RJ45
Control signal:	DMX512
Operating ambient temperature:	-10 °C till +40 °C

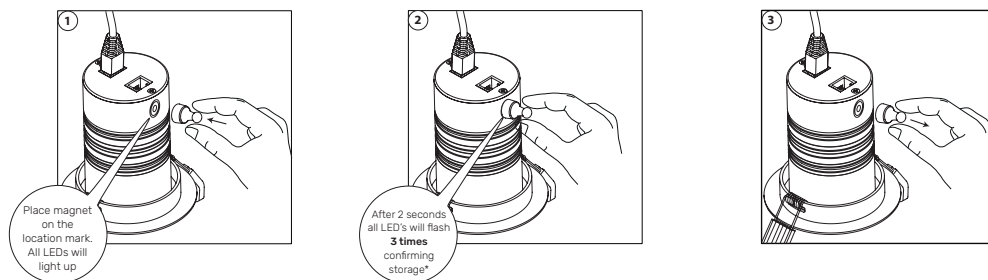


PROGRAMMING

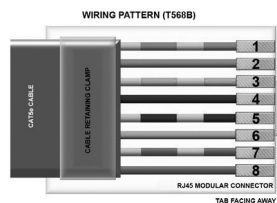
All settings can be configured via DMX. Settings can be configured at once or separately. When one or a couple settings needs to be changed just leave all other setting values zero. This keeps those settings unchanged. Please check the table for more information.

Always use a DMX controller with digital interface. If not available, you can purchase an universal DMX addresser unit.

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 CLS sales distributor.



PIN	COLOUR	FUNCTION
1	Orange/white	- (PWR)
2	Orange	+ (PWR) Check manual for voltage
3	Green/White	- (PWR)
4	Blue	Data - (DMX)
5	Blue/White	Data + (DMX)
6	Green	- (PWR)
7	Brown/White	+ (PWR) Check manual for voltage
8	Brown	- (PWR)

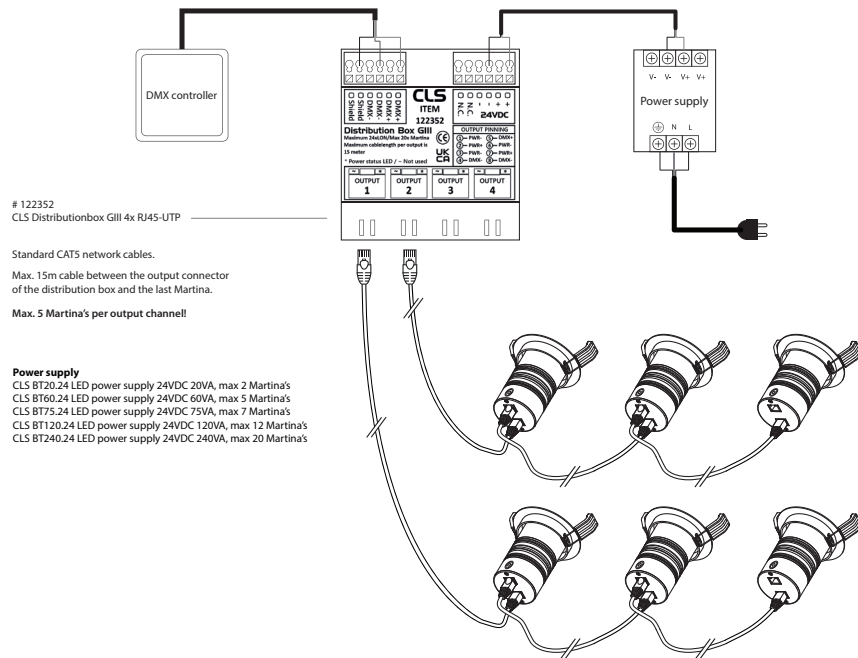
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PROGRAMMING TABLE

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 1 to 255. (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. (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". 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	
CH9	Output 4 patch	0	no change	
		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	
		2...255	intensity 2...255	
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	
		2...255	intensity 2...255	
CH12	Static output 3	0	no change	
		1	output off	
		2...255	intensity 2...255	
CH13	Static output 4	0	no change	
		1	output off	
		2...255	intensity 2...255	
CH14	Load default settings	0	no change	This function resets all settings to the Factory setting.
		1	Load Factory settings.	

Number of DMX channels needed				
LED colour	1	2	3	4
Single colour	×			
Tunable White		✓		
ColourFlow				✓

WIRING DIAGRAM



ACCESSORIES

Accessories

Y106301-N	CLS Martina 10° lens
Y106301-M	CLS Martina 24° lens
Y106301-W	CLS Martina 31° lens
Y106301-E	CLS Martina 13 x 40° lens
122352	CLS Distributionbox GIII 4x RJ45-UTP
706667	CLS CAT5 network cable with 2 x RJ45 connectors grey 2 mtr
706668	CLS CAT5 network cable with 2 x RJ45 connectors grey 5 mtr
706669	CLS CAT5 network cable with 2 x RJ45 connectors grey 10 mtr
706672	CLS CAT5 network cable with 2 x RJ45 connectors grey 20 mtr
706995	CLS BT20.24 LED power supply 24VDC 20VA 85-264VAC, max 2 Martina
707016	CLS BT60.24 LED power supply 24VDC 60VA 85-264VAC, max 5 Martina's
707012	CLS BT75.24 LED power supply 24VDC 75VA 85-264VAC, max 6 Martina's
707013	CLS BT120.24 LED power supply 24VDC 120VA 85-264VAC, max 12 Martina's
707014	CLS BT240.24 LED power supply 24VDC 240VA 85-264VAC, max 20 Martina's

LIST OF SYMBOLS

	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		Magne 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, AWW or Tunable White		Lightsource Equipped with a CLS, Bridgelux or Xicato LED module