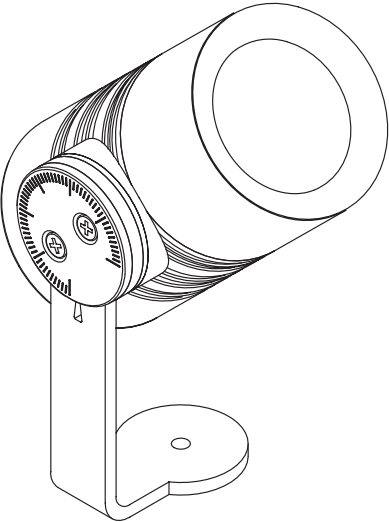


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SAFETY INFORMATION

Do not weld or use heat sources near the LED.

Do not use open flames near the LED.

Do not stare into the LED.

Ambiance  
Max. 40°

Qualified technician

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

RGBW

RGBA

2700K-5700K

1800K-4000K

24 VDC

Max. 10 Watt

DMX 512

3 Year Warranty

CE

Floor

Wall

Ceiling

360°

270°

DRIVER EXCLUDED

DRIVER INTERNAL

420 gr

50,000 h

10°

24°

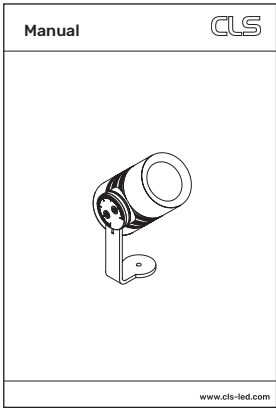
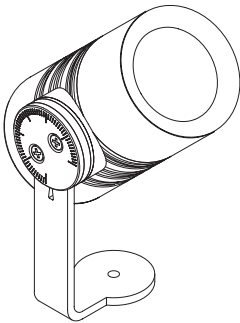
31°

60°

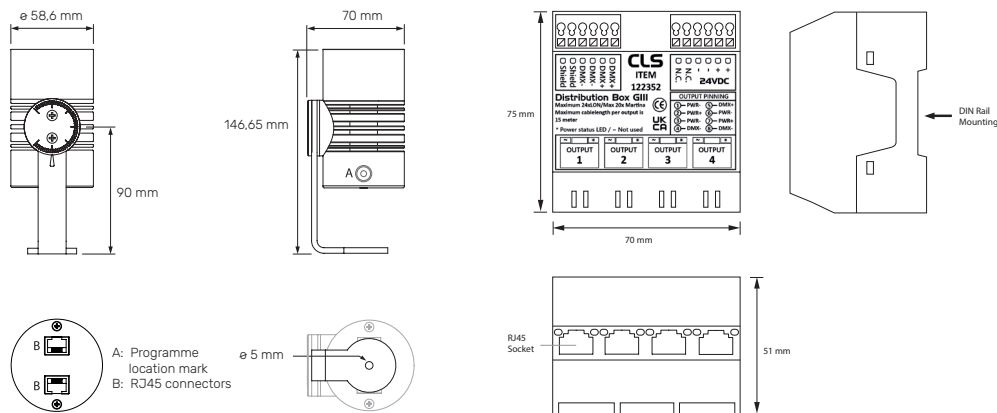
13 x 40°

4 x Luxeon Z

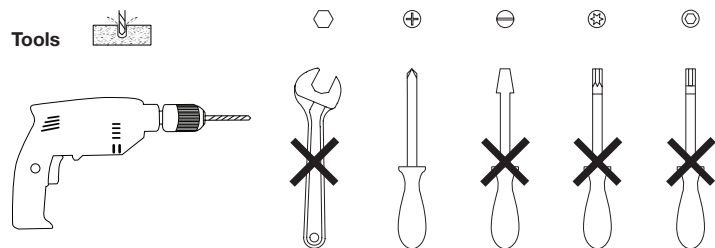
IP20



# TECHNICAL



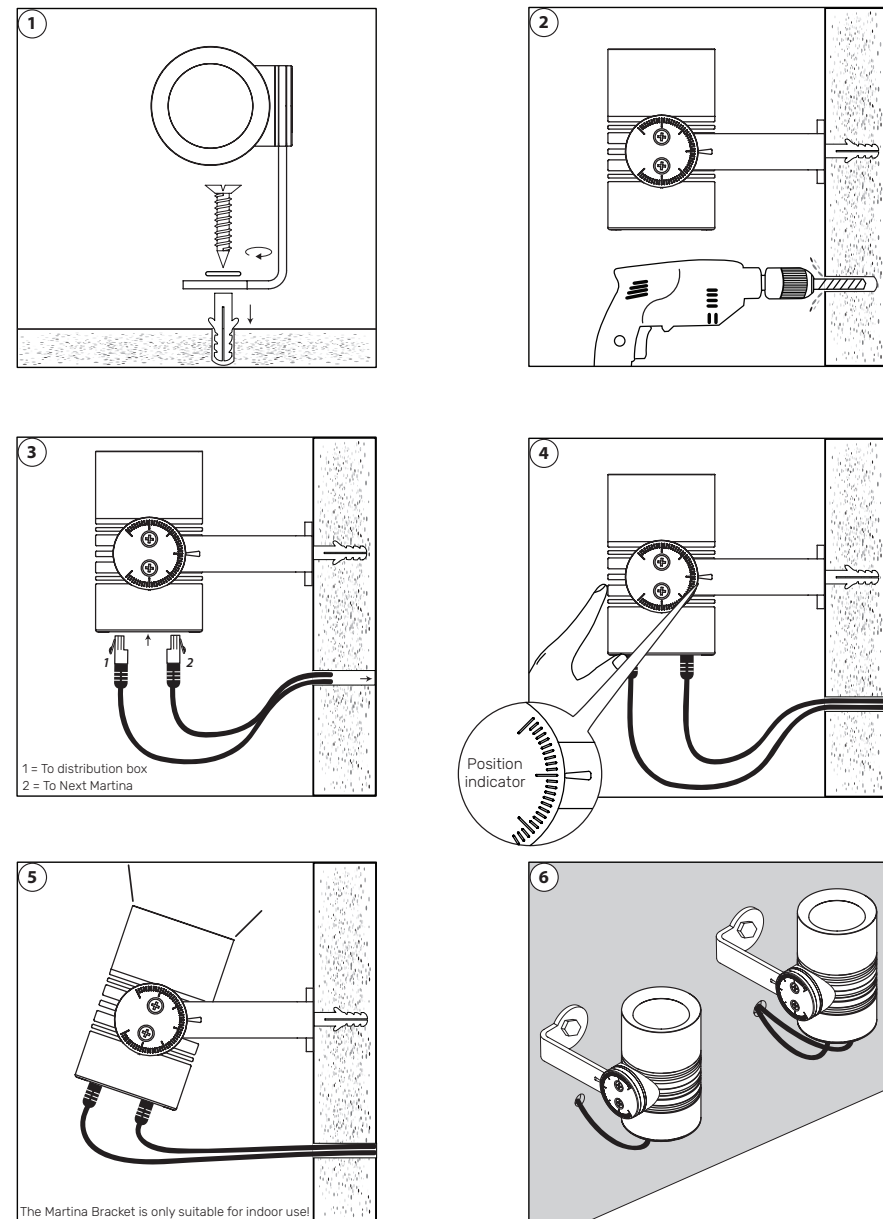
## Tools



## SPECIFICATIONS

LEDs:	4 x High Power LED
Colour changing:	RGBW or RGBA
Tunable White:	2700K-5700K or 1800K-4000K
Lenses:	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:	70 x 146,6 mm (wxh)
Weight:	420 gr
Input connector:	RJ45
Output connector:	RJ45
Control signal:	DMX512
Operating ambient temperature:	-10 °C till +40 °C

# INSTALL EXAMPLE

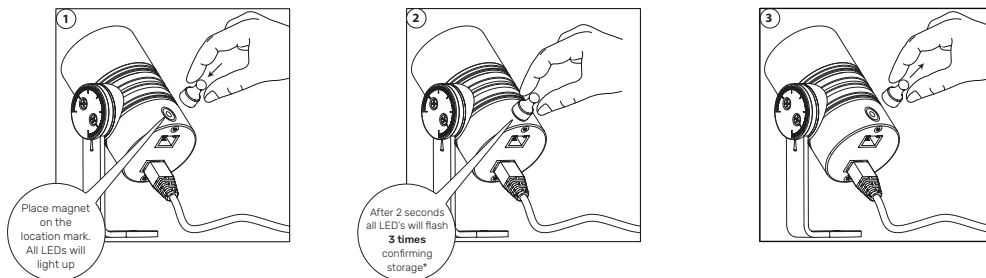


# PROGRAMMING

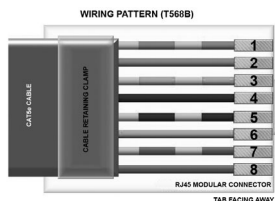
All settings can be configured via DMX. Settings can be configured at once or separately. When one or a couple settings needs to be changed just leave all other setting values zero. This keeps those settings unchanged. Please check the table for more information.

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)

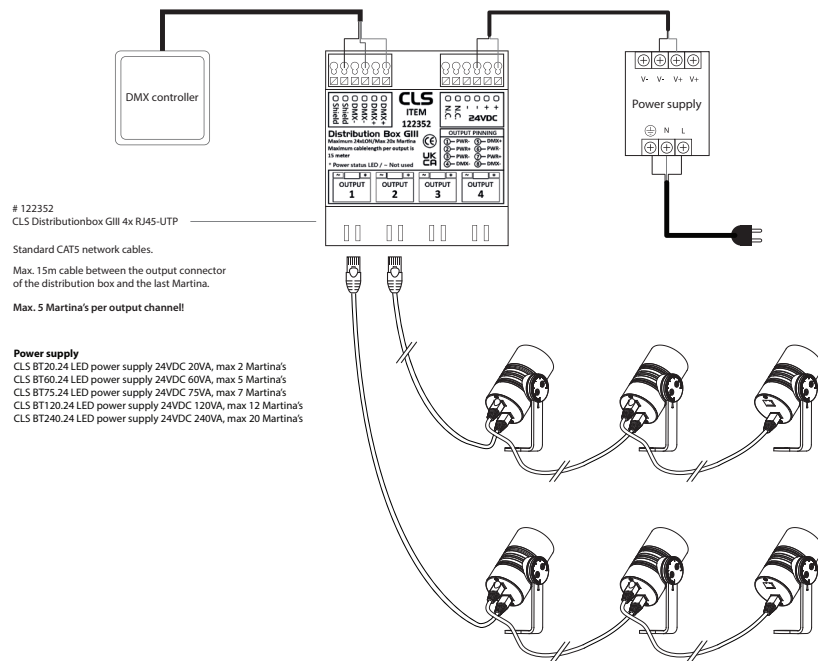
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# PROGRAMMING TABLE

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	<b>Example: all outputs are patched as 1</b> 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	<b>Example: output 1&amp;2 are patched as 1 and 3&amp;4 are patched as 2</b> 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	
CH11	Static output 2	2...255	intensity 2...255	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	2...255	intensity 2...255	
		1	output off	
CH13	Static output 4	2...255	intensity 2...255	
		1	output off	
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 Distribution box GIII 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

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