

User Guide

Guide for the correct installation
and use of L&S light fixtures and
power supply / control systems

ED.2026_0

Please read this guide carefully
and keep it safe for future reference





This guide shows how L&S lighting systems operate, as well as the LED technologies used and the relative control and power systems. Please visit the “Support Service” section on the company website if you have any questions regarding faults or installation problems with L&S products.

ls-light.com

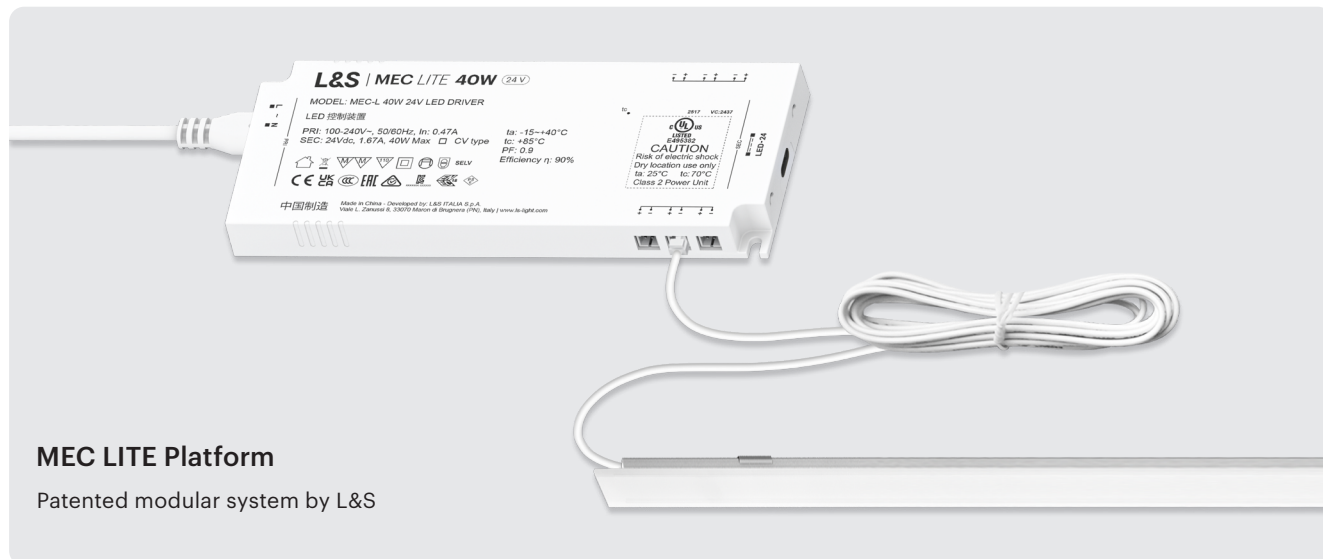
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TERM	DEFINITION
Lighting fixture	Lamp / Spotlight integrated into a piece of furniture, complete with power cable
ConnectorPower supply	Connector located at the end of the lighting fixture's power cable
Power (W)	Amount of energy/current consumed/absorbed by the lighting fixture. Watt (W) is the unit of measurement for power
Electrical grid / electrical system	System of devices and wiring designed to distribute electrical energy within a building
Dimming	Variation of the light intensity of the lighting fixture
Color Temperature	Tone of light emitted by the lighting fixture: e.g. 3000K = warm light (light color tending towards yellow), 4000K = natural light (light color tending towards white). Degrees Kelvin [K] is the unit of measurement for color temperature
MONO	Monochromatic: lamp / spotlight with LED source with a single pre-set color temperature that cannot be changed
EDC Dual Color	Acronyms that identify lighting fixtures with adjustable color temperature LEDs, generally identified as "Dual Color" or "Dual": EDC (3000K-4000K). The acronym "EDC" is generally used in all L&S control systems to identify models compatible with adjustable color temperature LEDs.
EDC Jumper	5cm cable complete with double male-female connection that allows the color temperature change in Dual Color lighting fixtures: it is applied to the end of the power extension of the fixture WITHOUT an integrated control system
Integrated control system	Electronic component integrated into the lighting fixture. It allows for switching it on and off. Some integrated control systems (marked EDC) also allow for changing the color temperature or dimming the fixture
External control system	Electronic component external to the lighting fixture. It allows for switching it on and off. Some external control systems (marked EDC) also allow for changing the color temperature or dimming the fixture.

TERM	DEFINITION
IRS	Infrared Switch: proximity infrared control system integrated into the lighting fixture. Without touching the fixture, the IRS recognizes hand movement and enables the switching on and off functions (MONO and Dual Color LED) and color temperature change (Dual Color LED only)
IRD	Infrared Door: proximity infrared control system. The IRD recognizes the obstacle created by doors / drawers and, during closing / opening, enables the switching on and off functions (MONO and Dual Color LED) and color temperature change (Dual Color LED only)
TOUCH	Touch switch: control system that involves a short or long press with a finger on the LED point of the TOUCH switch and enables the switching on and off functions (MONO and Dual Color LED), dimming (MONO LED), and color temperature change (Dual Color LED only)
PIR	Presence sensor: control system that recognizes the presence of a person / object. By approaching the PIR sensor, it detects movement and enables the lighting fixture to switch on. After a period where the PIR sensor no longer detects any movement, the fixture will switch off. Some models (marked EDC) also allow for changing the color temperature of the connected Dual Color fixtures.
Power supply / Driver MEC LITE	Power supply device required to operate lighting fixtures at very low voltage (12V DC, 24V DC). MEC LITE is the 24V DC modular power supply system developed and patented by L&S.
Power distributor	Component that allows for the connection of multiple lighting fixtures to a single power supply: in the MEC LITE Driver, this component is integrated into the power supply housing
Control Module	Component of the MEC LITE modular system: it allows for the control of various functions of the lighting fixtures connected to it (switching on, dimming, color temperature, ...) via radio frequency transmitters or external control systems (e.g., cabled sensors)
Receiver Module	Control module complete with an internal control unit designed to receive Radio Frequency, Bluetooth, or Wi-Fi signals.
Transmitter	Radio frequency control system that sends signals to a receiver module (e.g., LITE Remote / LITE Sensor)
Association	Connection / linking procedure between receiver and transmitter module

1.1 - Overview

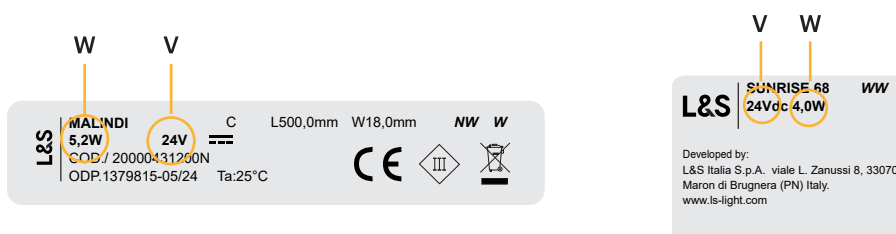
L&S LED lighting fixtures are powered by very low (24 V) DC safety voltage: each fixture therefore requires a Power Supply (also called Driver, available in different power ratings) to convert the mains voltage of the electrical socket (220-240V AC in Europe and 110-120V AC in the USA) into very low voltage for the correct operation of the connected fixtures.



Please refer to the dedicated sections (§ 5) for detailed information on the available models, their correct operation and troubleshooting.

⚠ ATTENTION

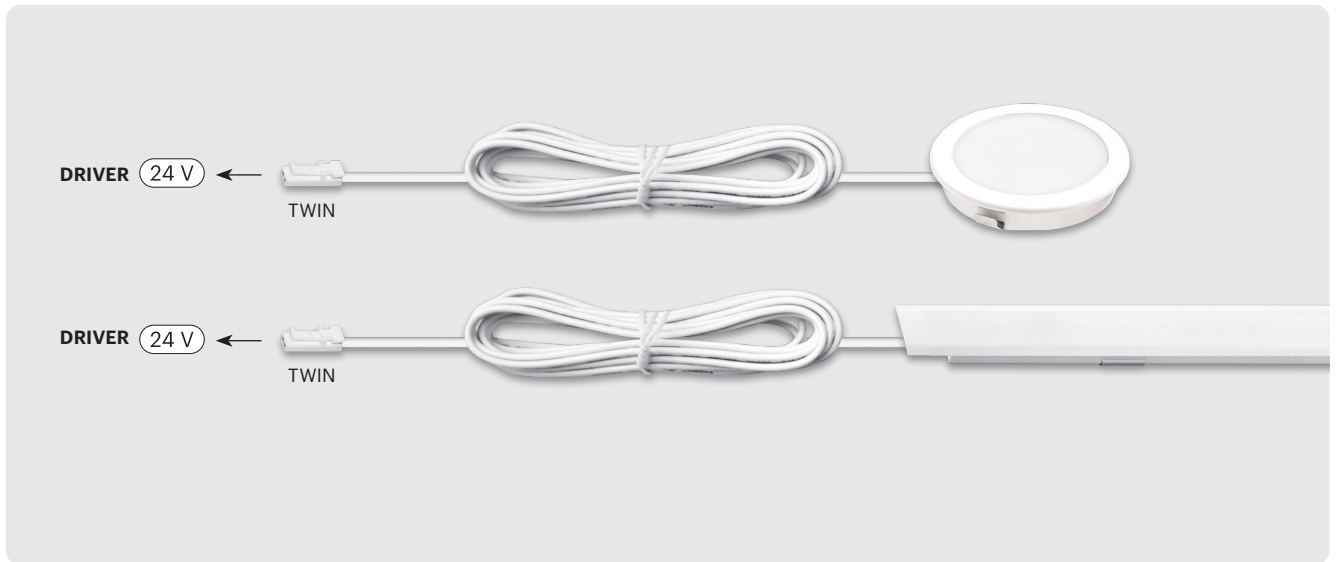
The power supply voltage of L&S lighting fixtures is always shown on the labels attached to the body of the lamps (label data) or on the power cord (eg. spotlights), along with the power absorbed (W) by the light fixture.



Always calculate the total absorbed power (W) of any light fixtures to be connected so you can select the right power supply unit: the power of the Driver must always be higher (§ 6.1) than the total absorbed power (we recommend choosing a Driver with a power output that is at least 10% greater than the total absorbed power).

1.2 - Power cable

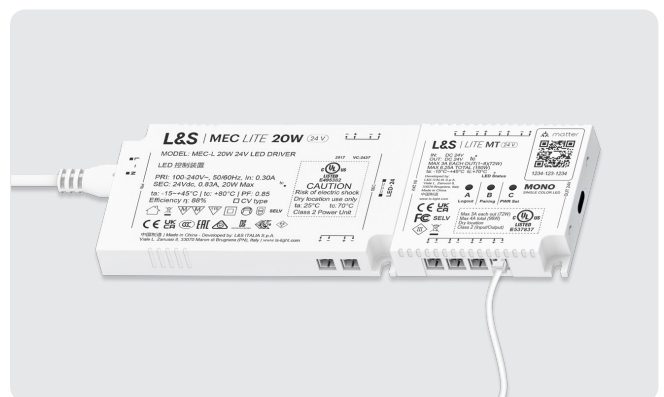
Each L&S LED lighting fixture is fitted with a power cable complete with TWIN connector mounted at the end for connection to the Driver; the color of the power connector clearly identifies the lighting fixture's power voltage (White 24 V).



The color of the TWIN connector matches that of the inputs/outputs on the Power Distributors or Control Modules to which the lighting fixtures are connected.



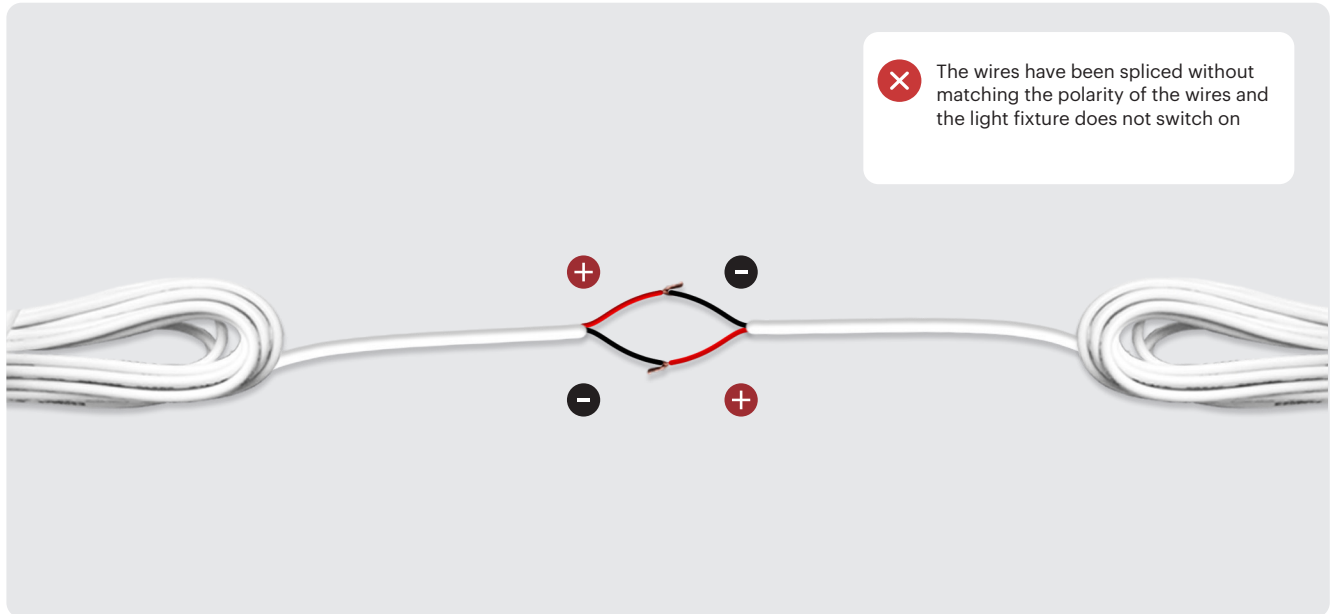
MEC LITE - Integrated power distributor (\$ 5.2.1)



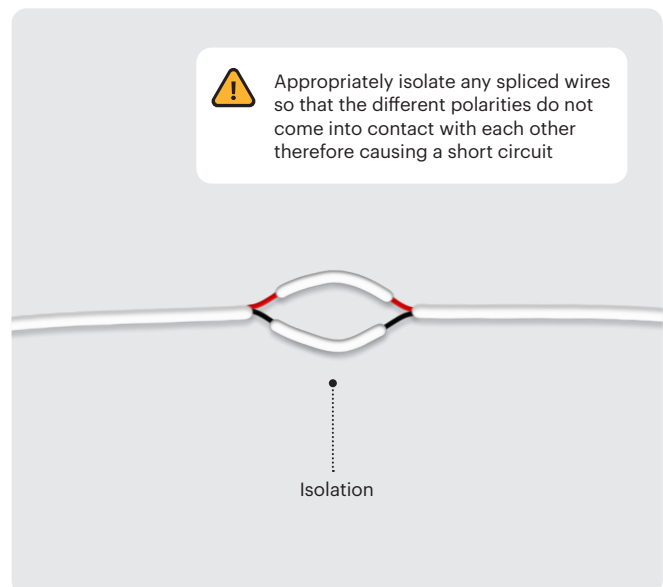
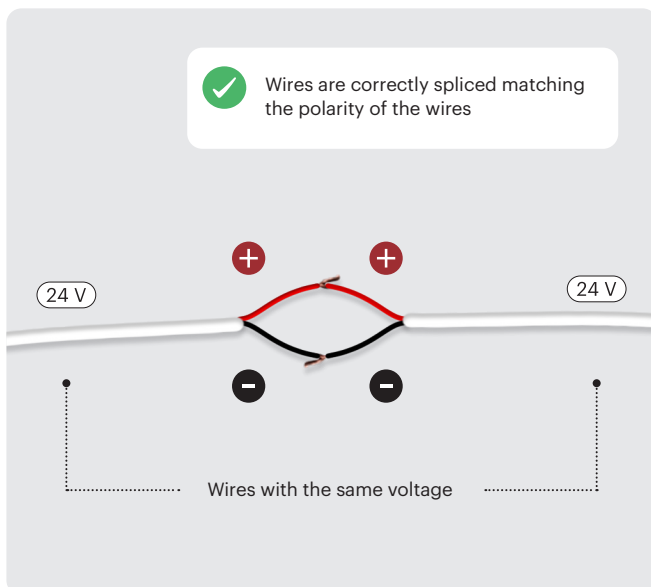
MEC LITE - Control Module (\$ 5.2.2)

1.3 - Warnings and Troubleshooting

If, due to assembly requirements, you need to manually splice low DC voltage power cords on light fixtures, pay careful attention that the polarity is always matched for the cords: red wire (+ pole) / black wire (- pole).



Also make sure to follow the power supply voltage (do not splice a 12 V wire with a 24 V wire) and to appropriately isolate any spliced wires not to cause so any short circuits. Manual wire splicing is not generally recommend, especially if this procedure is carried out by unqualified technical staff. In this case, it is best to use appropriate cable extensions complete with connectors.



1.3 - Warnings and Troubleshooting

SYMPTOM	POSSIBLE CAUSE	SOLUTION
The light fixture does not switch on	Connection	Check that the power connector is inserted correctly into the appropriate slot and connected to the power supply
The light fixture overheats or does not work	Wrong power supply	Check that the power supply voltage (Driver) matches the voltage of the light fixture (12 V or 24 V DC). If they are not the same, disconnect the light fixture immediately
The light fixture blinks or does not work	Connection to the mains electrical system	Check that the connection to the mains electrical system meets applicable regulations. If the problem continues, remove the general power supply unit for a couple of minutes and then plug it back in
	Generic power supply	We recommend using original L&S power supply units to prevent the risk of any connected light fixtures malfunctioning
	Undersized power supply	Make sure that the power (W) of any connected light fixtures (LED load) is always less than the power supplied by the connected power supply unit.
	Power Supply Positioning	Do not put several power supply units on top of or next to each other in order to prevent the risk of any connected light fixtures overheating or malfunctioning
	Connecting wires	Do not use tangled wires to prevent the risk of any connected light fixtures overheating or malfunctioning

2.1 - Overview

The Color Temperature of an LED light source is measured in Kelvin (K) and indicates the color tone emitted by the luminaire. The lower the Kelvin value, the warmer (yellow) the light. The higher the Kelvin value, the cooler (bluer) the light. Based on the color temperature (Single or Dual), L&S light sources can be divided into **MONO** and **DUAL COLOR**: the L&S fixtures dedicated to **HOME CUCINE** integrates **EDC DUAL COLOR LED**.



3000K (Warm White - WW)

4000K (Natural White - NW)

MONO - LED light sources with a single, non-modifiable preset Color Temperature

WW

NW

3000K 4000K

On-Off / Dimmer control via:

- Integrated “**MONO**” control systems (§ 3)
- External “**MONO**” control systems (§ 4)

DUAL COLOR - LED light sources with adjustable Color Temperature

EDC

EDC Dual Color
Adjustable between 3000K and 4000K

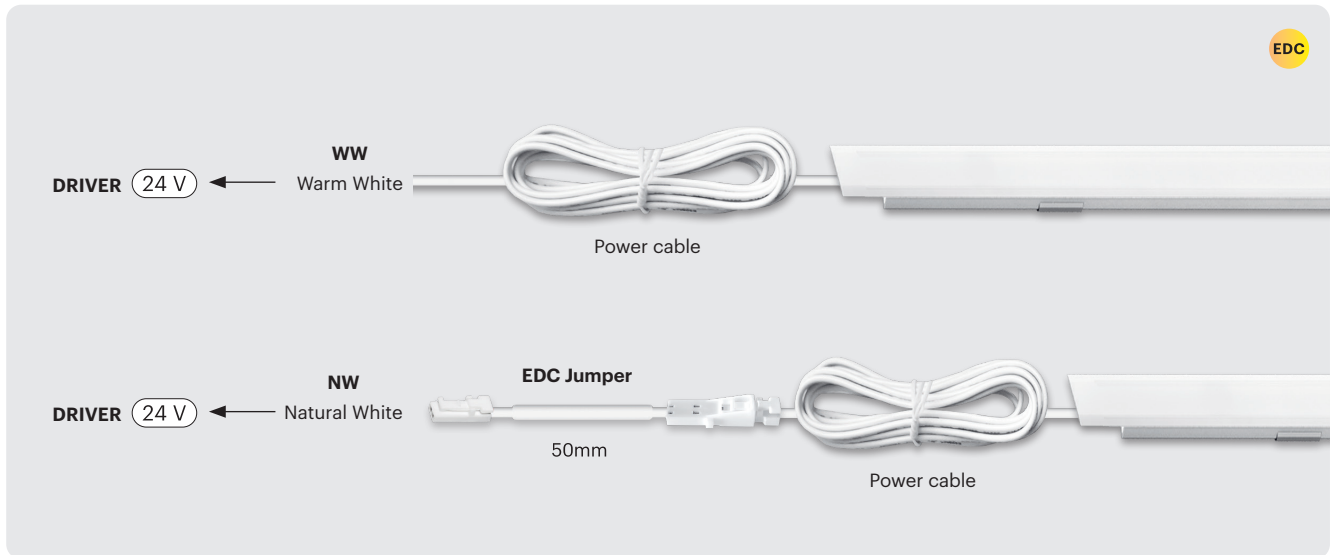
On-Off / Dimmer and Color Temperature control via:

- Integrated “**EDC**” control systems (§ 3)
- External “**EDC**” control systems (§ 4)
- EDC Jumper cable (§ 2.2 - for color temperature control only)

By default (without setting), Dual Color light fixtures switch On at the warmest color temperature.

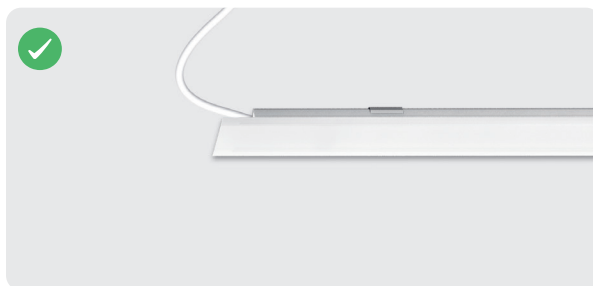
2.2 - EDC Jumper

EDC Jumper is a 50mm cable that allows the colour temperature of Dual colour EDC fixtures to be set during installation: it is mounted at the end of the fixture's power cable and inverts the polarity of the LED, thus changing the colour temperature from "Warm Light WW" (default value: 3000K EDC) to "Natural Light NW" (4000K).



⚠ ATTENTION

- Only use it with Dual Color light fixtures (EDC - § 2.1)
- The EDC Jumper cable reverses the polarity of the low voltage supplied by the Driver: do not use the cable with light fixtures fitted with a built-in switching system (§ 3 - § 6.3) otherwise it might interfere with the operation of the system (the colour temperature setting is managed through the switch/sensor on the light fixture).



- Do not use the EDC Jumper cable with MEC LITE Control Modules (§ 5.2.2 - the colour temperature is managed by the Module through compatible control systems).
- To keep a consistent colour temperature in any light fixtures connected to the driver, always make sure that all light fixtures are fitted with an EDC Jumper or not (§ 6.2).

3.1 - IRD EDC (Infrared Door)

Door switch integrated integrated within EDC Dual Color lighting fixtures (§ 2.1). It allows for switching the fixture on or off when cabinet doors or drawer fronts are opened or closed. To change the color temperature, the furniture door or drawer front must be opened and closed rapidly three times in a row.



IRD EDC KITON lamp


- ON-OFF
Open/close the cabinet's door or drawer
- Color Temperature change
Open and close the cabinet's door or drawer very quickly 3 times in a row: the color temperature change from 3000K to 4000K

⚠ ATTENTION

- The reading distance varies depending on the colour of the door: for dark surfaces it is 3 cm max, while for light surfaces it is 5 cm max. The IRD switch does not work with glass doors.
- When first switched On, the EDC IRD performs a set-up process of about 15 seconds (the light fixture blinks). Brightness will be reduced to 50%. At the end of this process, check that the switch is properly calibrated by opening and closing the door or drawer.
- In the event of a mains power failure, the light fixture will switch back On when power is restored. By opening and closing the door again, the lamp will start working again normally.
- If the light fixture with IRD switch is left switched On, the switch will automatically turn the light fixture off after 18 hours of stand-by.
- Light fixtures with a built-in IRD switch must not be connected to the Power Supply via external control systems (§ 4.1) or Control Modules (§ 5.2.2): only use the integrated Power Distributor of the MEC LITE (§ 6.4). If the Power Supply is connected to a switch controlled outlet it is not possible to use lighting fixtures fitted with integrated IRD switch.
- Do not use the EDC Jumper cable (§ 2.2) with light fixtures fitted with integrated IRD switch.
- To prevent any temporary faults, do not expose the IRD to excessive direct light sources (eg. sunlight or light from other light fixtures). Excessive sources of steam directly on the IRS could cause the light fixture to switch On and/or Off by itself.
- Always refer to the instruction manual included with the light fixture for complete information on the features of the integrated IRD control system.

3.2 - TCS EDC (Touch Switch)

Integrated touch switch within EDC Dual Color lighting fixtures (§ 2.1): the fixture is controlled by touching its surface at the white indicator LED point, which is always visible. Depending on the specific model and the type of touch (short or long press), the switch allows for on/off control, dimming, and color temperature adjustment.



TCS EDC
BEL xT-L vela / SKY B lamps

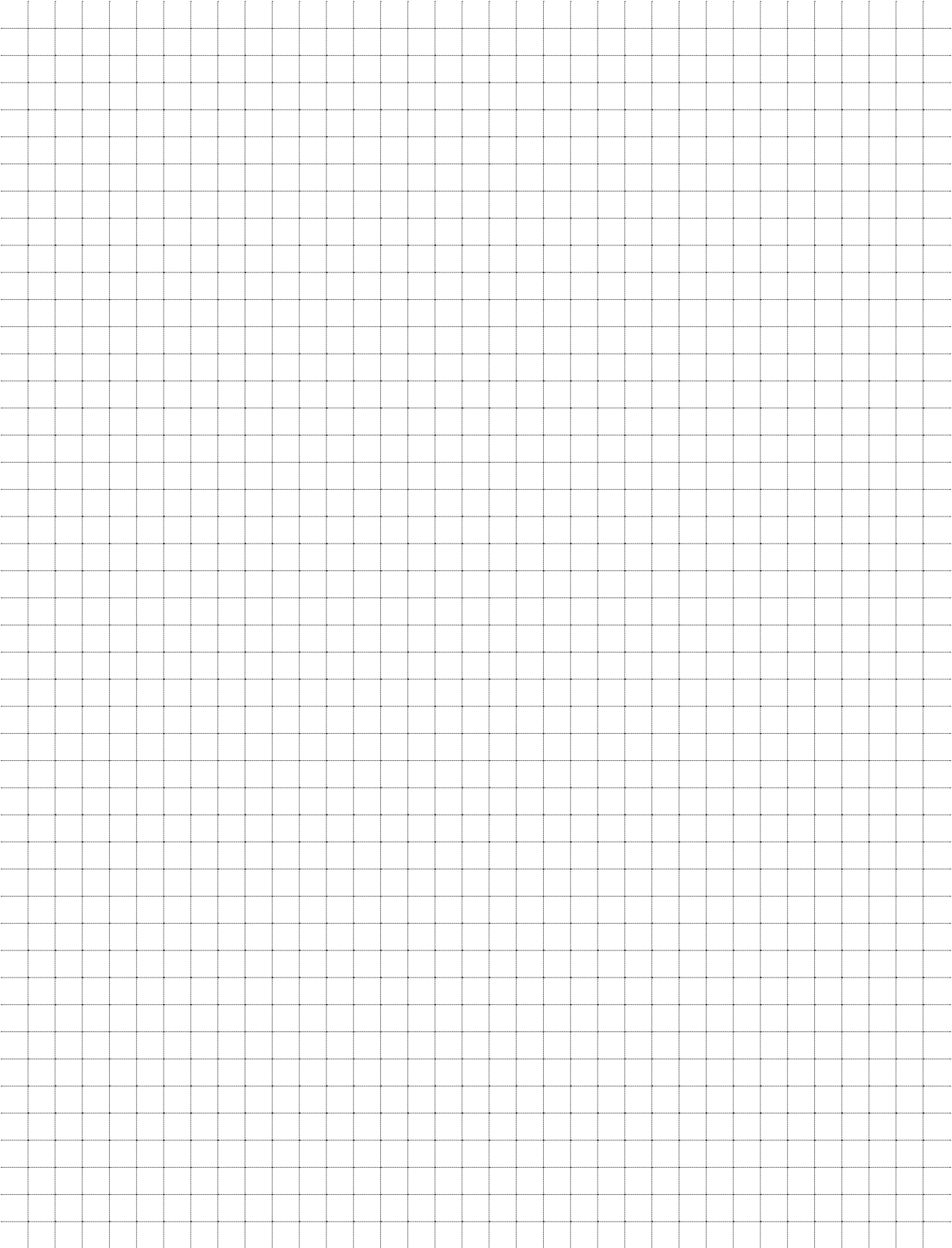
- ON-OFF
Single touch of the LED indicator on the fixture
- Color Temperature change
long touch of the switch locator light dot on the fixture already switched On: the color temperature change from 3000K to 4000K

ATTENTION

- Light fixtures with a built-in TCS switch must not be connected to the Power Supply via external control systems (§ 4.1) or Control Modules (§ 5.2.2): only use the integrated Power Distributor of the MEC LITE (§ 6.4). If the Power Supply is connected to a switch controlled outlet it is not possible to use lighting fixtures fitted with integrated TCS switch.
- Do not use the EDC Jumper cable (§ 2.2) with light fixtures fitted with integrated TCS switch.
- To prevent any temporary faults, do not expose the IRS to excessive direct light sources (eg. sunlight or light from other light fixtures).

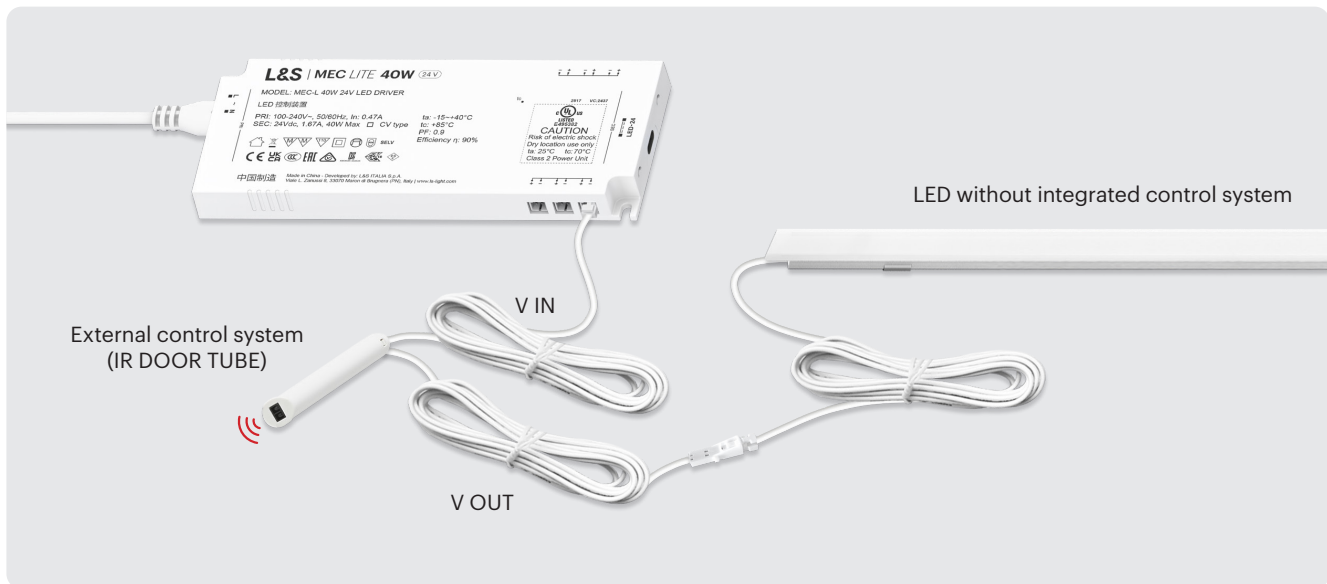
3.3 - Troubleshooting

SYMPTOM	POSSIBLE CAUSE	SOLUTION
A light fixture with a built-in control system switches on or off on its own	Steam	Avoid any excessive sources of steam around the built-in control system
	Direct or reflected light	Avoid any excessive direct or reflected light on the built-in control system
A light fixture with a built-in control system does not work or blinks	Wall switch	You should not use wall switches connected to the Driver for light fixtures fitted with a built-in control system. If this option is necessary, before setting up light fixtures with a wall switch control, check that all these light fixtures have been switched on through the built-in control system. Wait at least 10 seconds between switching on and off with the wall switch
	Power supply connection	Light fixtures with a built-in control system should only be connected to the Power Supply via power distributor (do not use external control systems or Control Modules)
	EDC Jumper	Do not use the EDC Jumper cable with Dual Color light fixtures fitted with a built-in power-on system
	DALI	Do not use the DALI system with light fixtures fitted with a built-in control system
A light fixture with a built-in IRS control system does not work or blinks	Lens	Check that the IRS lens is properly fitted on the light fixture screen
	Obstacle or reflection on the lens	Check that there are no reflective surfaces or obstacles within the IRS operating range. Remove the obstacle.
A light fixture with a built-in IRD control system does not work or blinks	Door finish	Check the finish on the door where the built-in IRD control system operates. The reading distance varies depending on the surface: 3cm max for dark surfaces, 5cm max for light surfaces. If necessary, attach the grey sticker provided onto the door near the IRD switch.



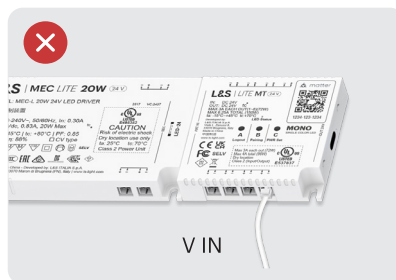
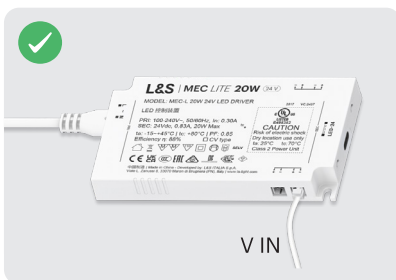
4.1 - Overview

Lighting fixtures without an integrated control system can be operated using external systems for on/off control, dimming, or color temperature adjustment (for DUAL COLOR fixtures - § 2.1). These devices (touch switches, door-activated sensors, control units with transmitters or wired sensors, etc.) are powered by low-voltage (24 V) DC through the Driver (V IN cable) and feature an output cable (V OUT) for connecting the lighting fixtures. This section of the guide illustrates the main troubleshooting issues for some of the most widely used external control systems, categorized by model.



⚠ ATTENTION

- Strictly follow the instructions provided in the instruction manual of each external control system for correct connection to the Driver and lighting fixtures.
- Use external control systems exclusively with lighting fixtures that do not have an integrated switching system. Do not connect external control systems to MEC LITE via Control Modules (§ 5.2.2): exclusively use the integrated Power Distributor of the MEC LITE driver (§ 5.2.1).



- If the Driver is connected to a wall switch (§ 5.2.1), it is not possible to use lighting fixtures with external control systems.
- Do not use the EDC Jumper cable (§ 2.2) with Dual Color lighting fixtures (§ 2.1) connected to an external control system (unless otherwise specified in the relevant instruction manual): color temperature adjustment is managed via the external control system.

4.2.1 - Warnings and Troubleshooting | IR DOOR TUBE

MONO / EDC (Dual Color)

Functions

- ON-OFF:
Open/close the cabinet's door
- Color Temperature change (EDC LED)
With Dual Color LED, Open and close the cabinet's door very quickly 4 times in a row



⚠ ATTENTION

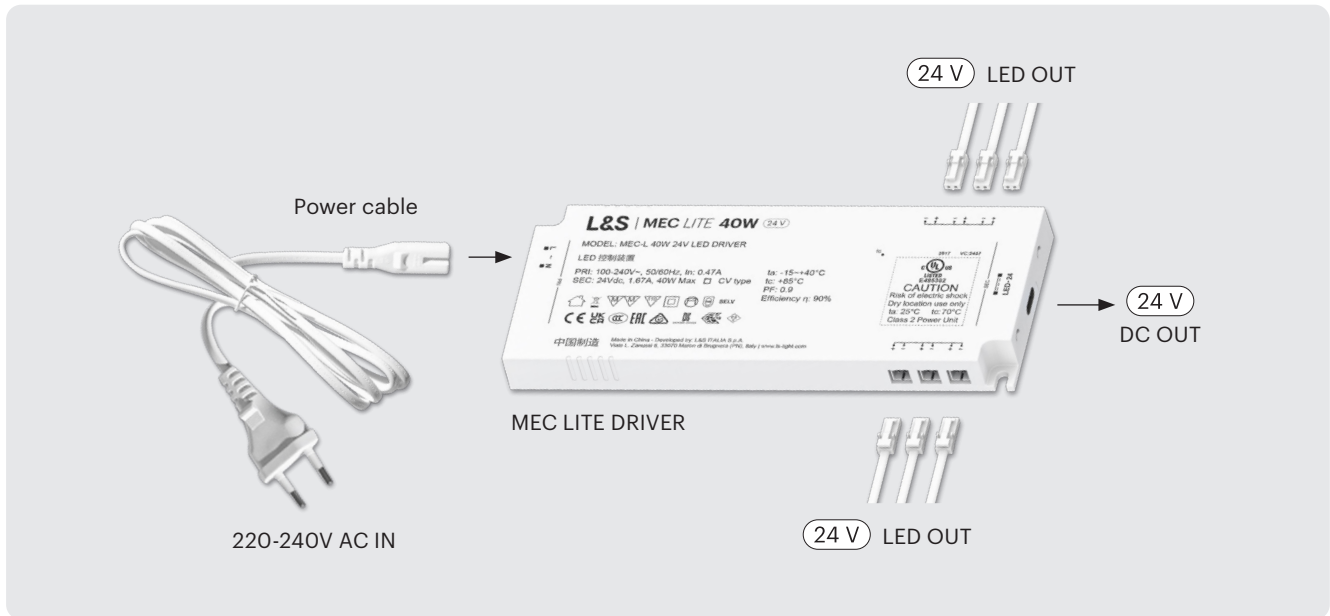
- The reading distance varies depending on the colour of the door: for dark surfaces it is 2 cm max, while for light surfaces it is 7 cm max.
- This system is available with a Single Sensor (for wardrobes with single door) or with a Master+Slave Dual Sensor (for wardrobes with double doors). A double IR DOOR TUBE cannot be used to make two single ones and vice versa: two single tubes cannot be used to make a double.

SYMPTOM	POSSIBLE CAUSE	SOLUTION
A light fixture connected to the IR DOOR TUBE stays On even with the door closed	Door finish	Attach the grey sticker provided onto the door, in line with the IR DOOR TUBE
	Sensor reading	Open and close the door again to restart the sensor reading. If the problem persists, remove the general power supply unit for a couple of minutes and then plug it back in
A light fixture connected to the IR DOOR TUBE stays On for a long time with the door open	Stand-by	IR DOOR TUBE is set to 18 hours of stand-by, after which the light fixture will switch off automatically
Dual Color light fixtures connected to EDC IR DOOR TUBES in different compartments have different colour temperatures	External control system	Open and close the door quickly 4 times in a row to change the colour temperature of the light fixtures
Dual Color light fixtures connected to EDC IR DOOR TUBES in the same compartment have different colour temperatures	Emotion Jumper	Check that all the light fixtures connected are fitted with an EMOTION Jumper or not.

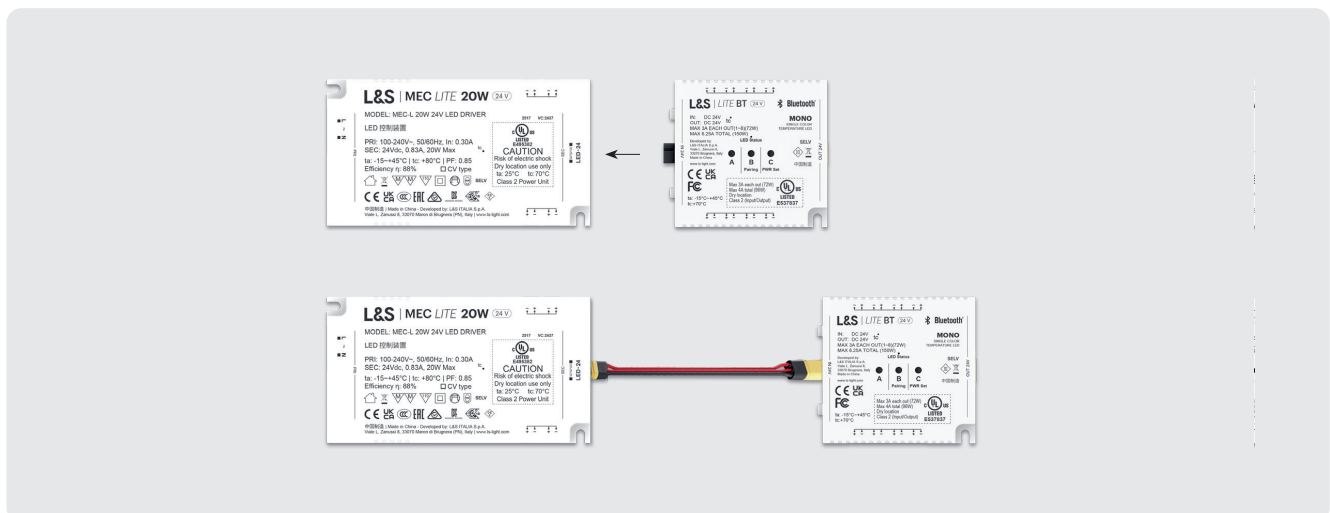
5. MEC LITE Platform

5.1 - Overview

MEC LITE is a modular and configurable power supply system for managing LED fixtures. It converts the AC mains voltage (220-240V AC in Europe and 110-120V AC in USA) into a constant extra-low (24V) DC voltage, allowing the correct operation of all connected lighting devices. Available in 20W, 40W, 60W, 75W, 96W and 150W models, each complete with an integrated power distributor for direct connection of LED devices (the number of outputs is optimized based on the power output).



MEC LITE is a modular, simple, and intuitive power supply and control platform: it is possible to connect various (24V) DC Control Modules (§ 5.2.2-§ 5.3) to control any adjustable lighting feature (On/Off, Dimmer, Color Temperature) via remote control, wireless sensors, cabled sensors, smartphone, or voice control. The Control Modules can be connected directly to the Driver or via a 500 mm Module connection cable.



Up to 5 Control Modules can be connected to a single Driver: regardless of the order of connection to the power supply, each module maintains the same functions and the same number of inputs/outputs.

5. MEC LITE Platform

5.1 - Overview



ATTENTION

- All components of the MEC LITE system are sold separately. The power cable is available in various models with different plugs based on the type of electrical outlet used: choose the cable suitable for your reference market.
- Always calculate the total absorbed power (W) of the lighting fixtures to be connected to select the correct power supply rating: the power of the MEC LITE Driver must always be greater than (§ 6.1) the total absorbed power (it is recommended to choose a power supply module with a power rating at least 10% higher than the total absorbed power). The power of L&S lighting fixtures is clearly indicated on the labels (see below) located on the lamp body (rating plate data) or on the power cable (e.g. Spotlights).



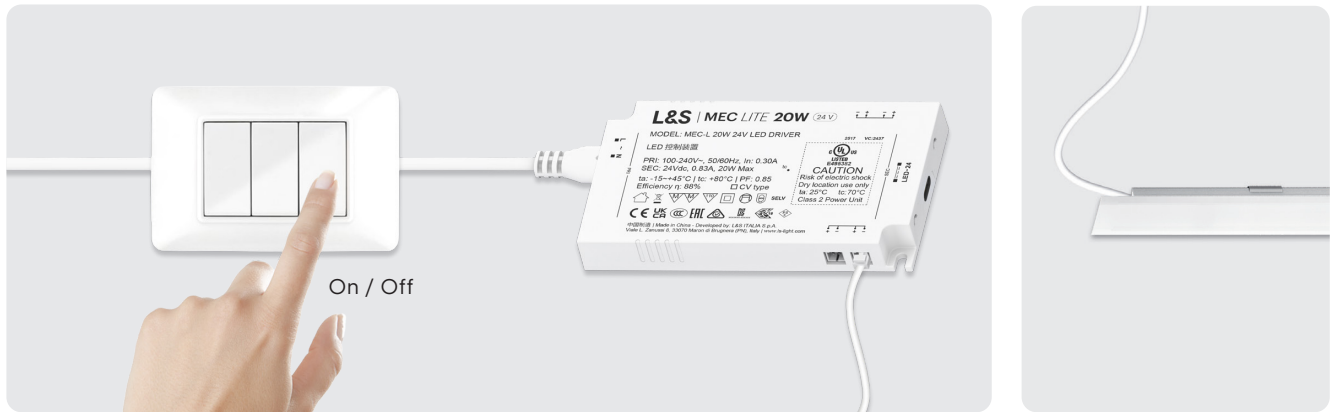
Power consumption (W) of L&S Group fixtures



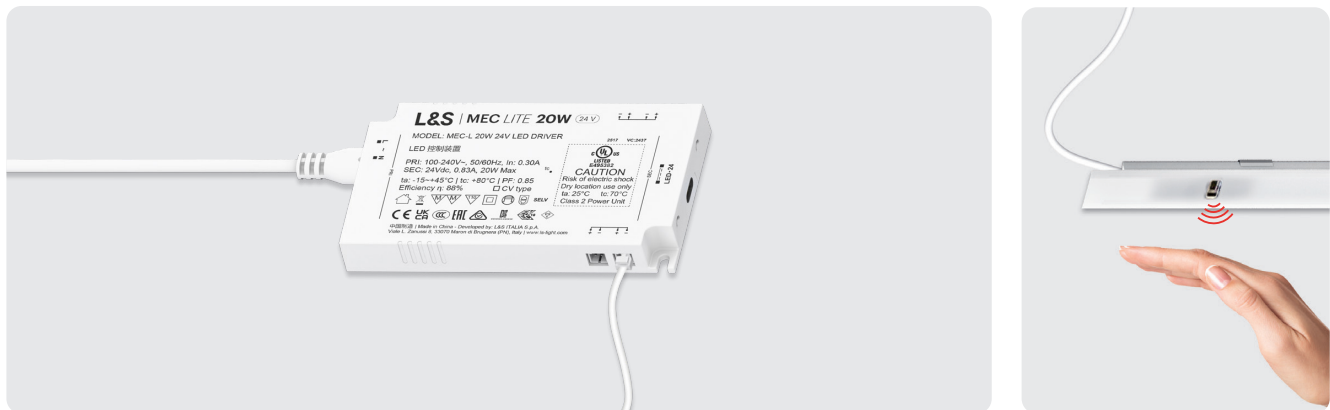
5.2.1 - Usage scenario: power supply only

By using the power distributor integrated in the MEC LITE Driver, it is possible to connect lighting fixtures with or without an integrated switching system. In the case of fixtures without a switch, MEC LITE must be connected to the power supply via a switch controlled wall socket for On/Off functions, thus preventing light intensity adjustment or remote control via transmitters, sensors, or voice assistants. In the case of fixtures with an integrated switching system, MEC LITE must be connected directly to the power supply: all lighting functions are managed via the switch/sensor on the fixture.

Lamps without switching system



Lamps with switching system



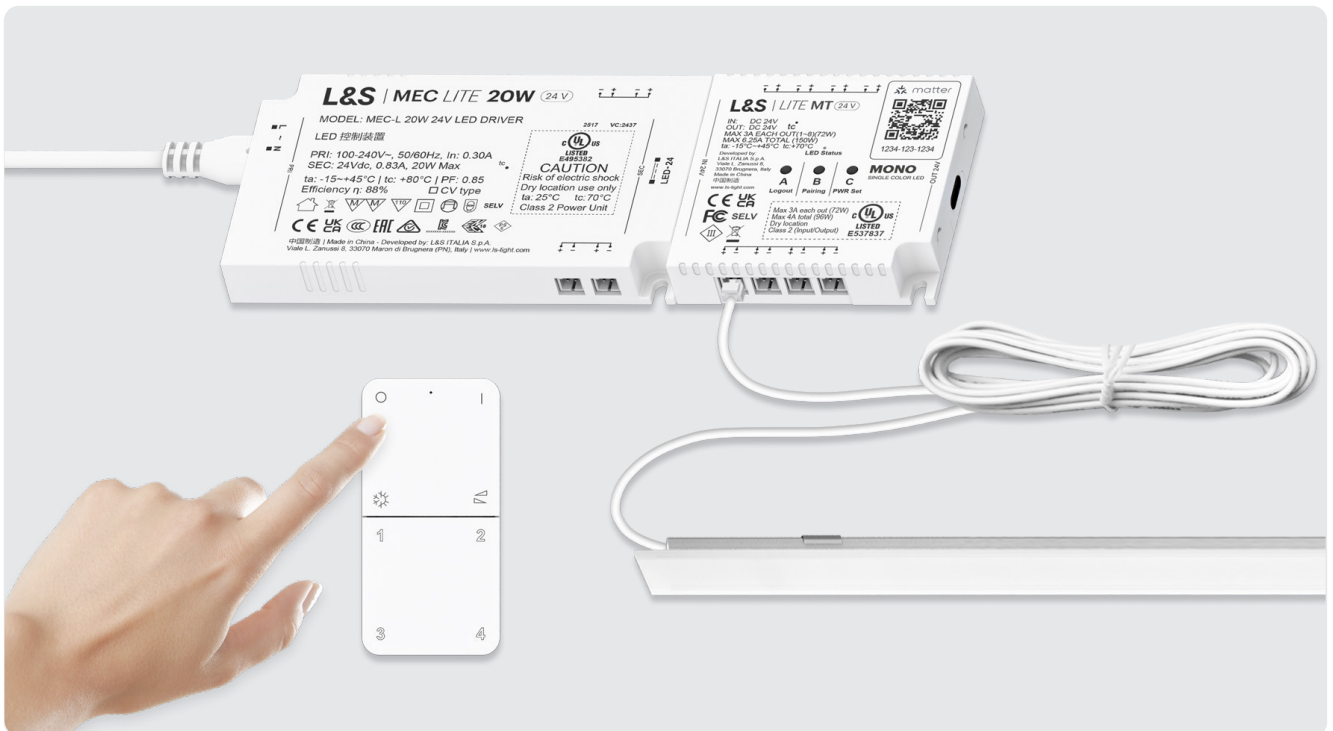
⚠ ATTENTION

- MEC LITE is not dimmable, do not connect to the mains via dimmable wall switches. Adjusting the light intensity of lighting fixtures without an integrated switch is not permitted if these are connected to the Driver via the power distributor: use a Control Module (§ 5.2.2-§ 5.3) to manage all adjustable lighting functions.
- Dual Color lighting fixtures (§ 2.1) can be connected to the Driver's power distributor using the EDC Jumper cable (§ 2.2) to choose the color temperature during installation. Do not use the cable with Dual Color lighting fixtures equipped with an integrated switching system: the color temperature is adjusted via the switch/sensor integrated into the fixture.

5.2.2 - Usage scenario: power supply and control

This is the configuration of the MEC LITE Driver with Control Modules (§ 5.3), ideal for controlling any adjustable lighting function (On/Off, Dimmer, Color Temperature, etc.) via radio transmitters (remote control and wireless sensors), cabled sensors, smartphones or voice control. If connected to a Control Module, MEC LITE must be connected directly to the mains via a standard non switch-controlled socket.

Only for lamps without switching system



⚠ ATTENTION

- Control Modules can only be used to connect lighting fixtures without integrated switching system (§ 6.4).
- Do not use Control Modules if the MEC LITE Driver is connected to the mains supply via a wall socket controlled by a switch.
- Control Modules are usually available in two versions, MONO or EDC (for Dual Color fixtures), based on the type of compatible fixture (§ 2.1): pay attention to the marking on the Module's housing.
- Dual Color lighting fixtures can only be connected to compatible Control Modules (marked EDC): the color temperature is adjusted by the Module via the relative remote controls or control accessories. Do not use the EDC Jumper cable (§ 2.2) to connect Dual Color lighting fixtures to Control Modules.
- Control Modules always turn back On at the last setting before switching Off (whether they were switched off via transmitter/remote control or due to a power supply interruption). Lighting fixtures connected to the Control Modules switch on and off gradually with a 0.5-second delay (Fade ON/OFF).

5.3 - Control modules | LITE BT

2.4 GHz radio frequency receiver (1 channel) with BLUETOOTH protocol

Simultaneous control of up to 8 devices via compatible transmitters (§ 5.4) and, via Bluetooth, via smartphone with a dedicated App developed by L&S. Available in MONO or EDC versions (Dual Color fixtures - § 2.1).



MANUAL

V IN/OUT: (24 V) DC
220-240V:
150W max (total)
72W single output
110V:
96W max (total)
72W single output

4x LED OUT

Bluetooth™

MONO
SINGLE COLOR LED

EDC
DUAL COLOR LED

4x LED OUT

CONTROLLO

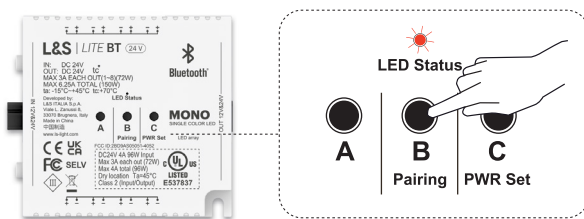
L&S

Dedicated Bluetooth App developed by L&S

Radio Transmitter (not included)

⚠ ATTENTION

- Available in MONO or EDC versions (Dual Color fixtures - § 2.1): choose the module based on the type of lighting fixtures used.
- Do not use the EDC Jumper cable (§ 2.2) to connect Dual Color lighting fixtures to the LITE BT module: the color temperature is adjusted by the module (EDC) via app or compatible transmitters.
- Use only with lighting fixtures without an integrated switching system (§ 5.2.2).
- Functions: On-Off, Dimmer and color temperature adjustment (the latter only for Dual Color lighting fixtures - § 2.1).
- Depending on the settings to be programmed (see below), the programming buttons (A/B/C) can be pressed once or long-pressed. To pair a compatible transmitter, refer to the section dedicated to the transmitter (§ 5.4).



	SINGLE PRESS	LONG PRESS
A		BLUETOOTH Reset
B	Pairing with 2.4GHz transmitter	Unpairing of all transmitters in memory
C	Power LED 100%	Power LED 50% - 100%

5.3 - Control modules | LITE BT

DEDICATED BLUETOOTH APP



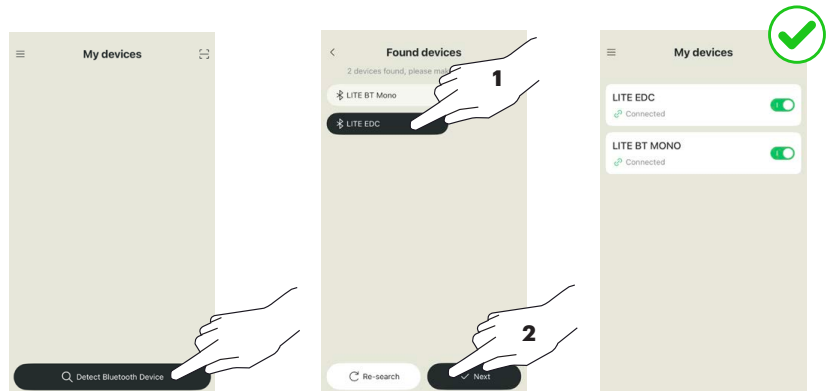
LITE BT

Free download from App Store or Google Play. Follow the configuration procedures indicated in the user manual and below. Refer to the "Tutorial" section of the app menu for advanced settings.

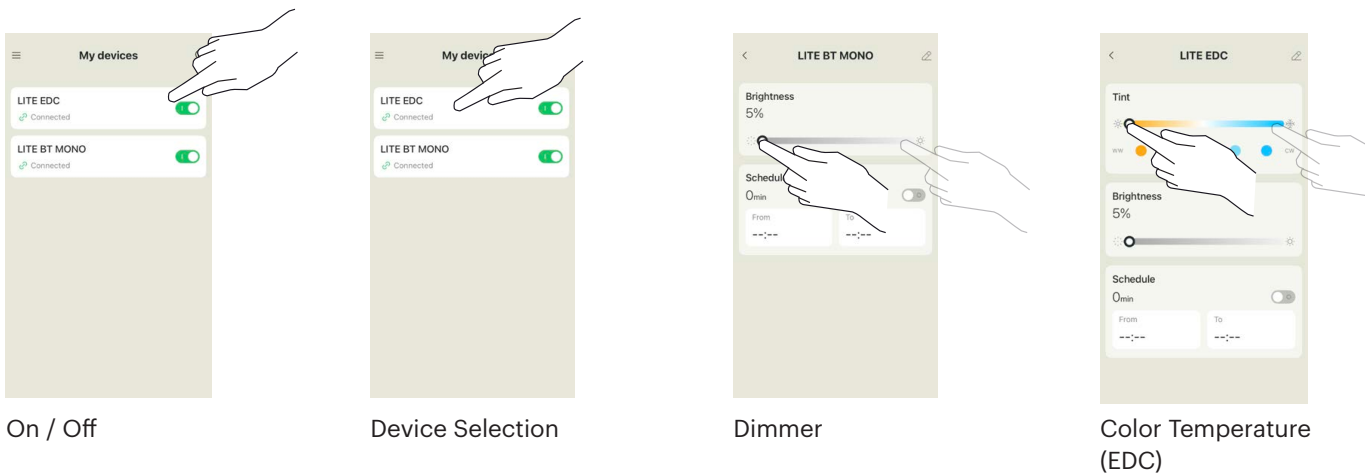


ADD A DEVICE

- Download and install the app **LITE BT** on your smartphone.
- Search for "Bluetooth Device".
- Select the desired device from the list (1) and click "Next" (2) to confirm.
- **WARNING:** Repeat the procedure for each LITE BT module connected in a continuous line to the power supply.



FUNCTIONS



On / Off

Device Selection

Dimmer

Color Temperature (EDC)

ATTENTION

- Before starting the pairing procedure, ensure that the MEC LITE Driver is correctly working/powered and that the module is firmly connected to the power supply. The pairing procedure must be repeated for each module (§ 6.6) connected in a continuous line to MEC LITE.
- To reset the memory of the LITE BT module, long-press the programming button "A".
- For more detailed information, refer to the instruction manual included with the purchased module.

5. MEC LITE Platform

5.4 - 2.4GHz Radio Transmitters | LITE REMOTE

2.4 GHz radio frequency Transmitter - 4 Channels

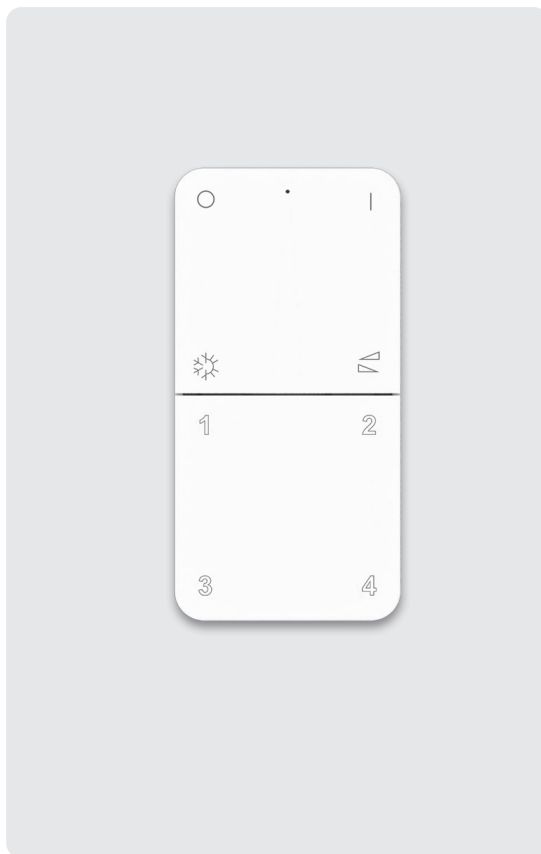
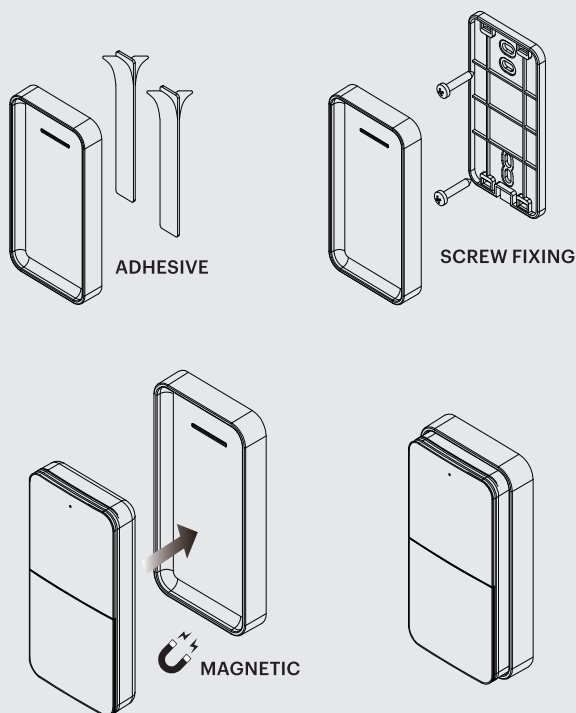
Compatible with LITE BT Control Module (§ 5.3)

Range: 15m indoor

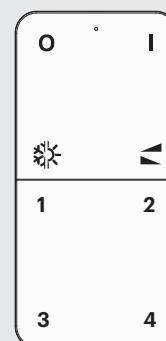


MANUAL

Magnetic wall mounting support included

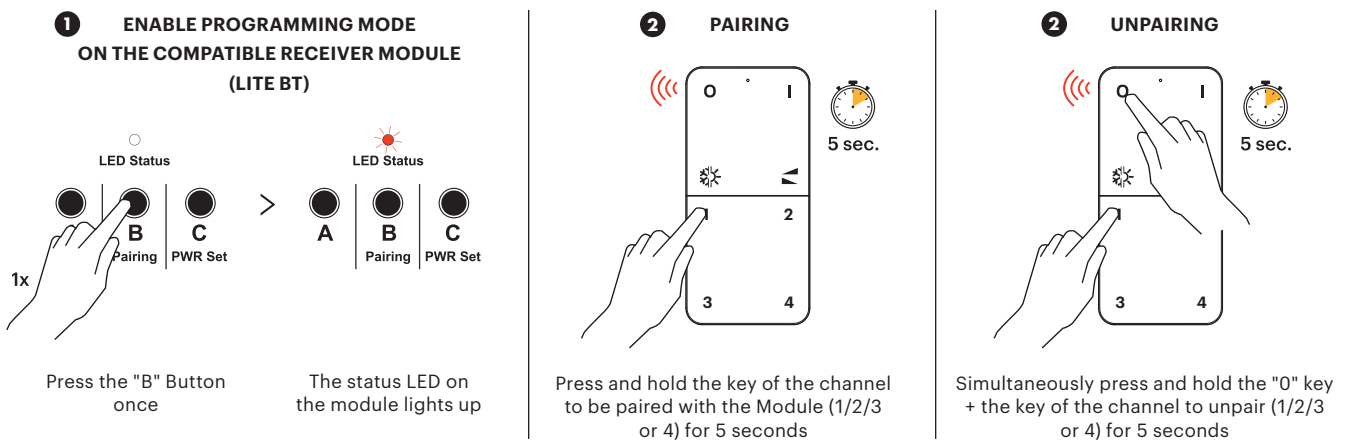


BUTTON	SINGLE PRESS	LONG PRESS
	ON	
○	OFF	
☀	ONLY FOR DUAL COLOR LEDs Color temperature adjustment (STEP)	ONLY FOR DUAL COLOR LEDs Color temperature adjustment (Gradual)
◀▶	Light intensity adjustment (Dimmer inSTEPS)	Light intensity adjustment (Gradual dimmer)
1/2/3/4	Channel Selection	Channel pairing with compatible receiver module
○+1/2/3/4		Channel unpairing from Receiver Module



COMPATIBLE RECEIVER MODULE PAIRING PROCEDURE

Note: the graphic example shows the procedure for pairing transmitter CHANNEL no. 1

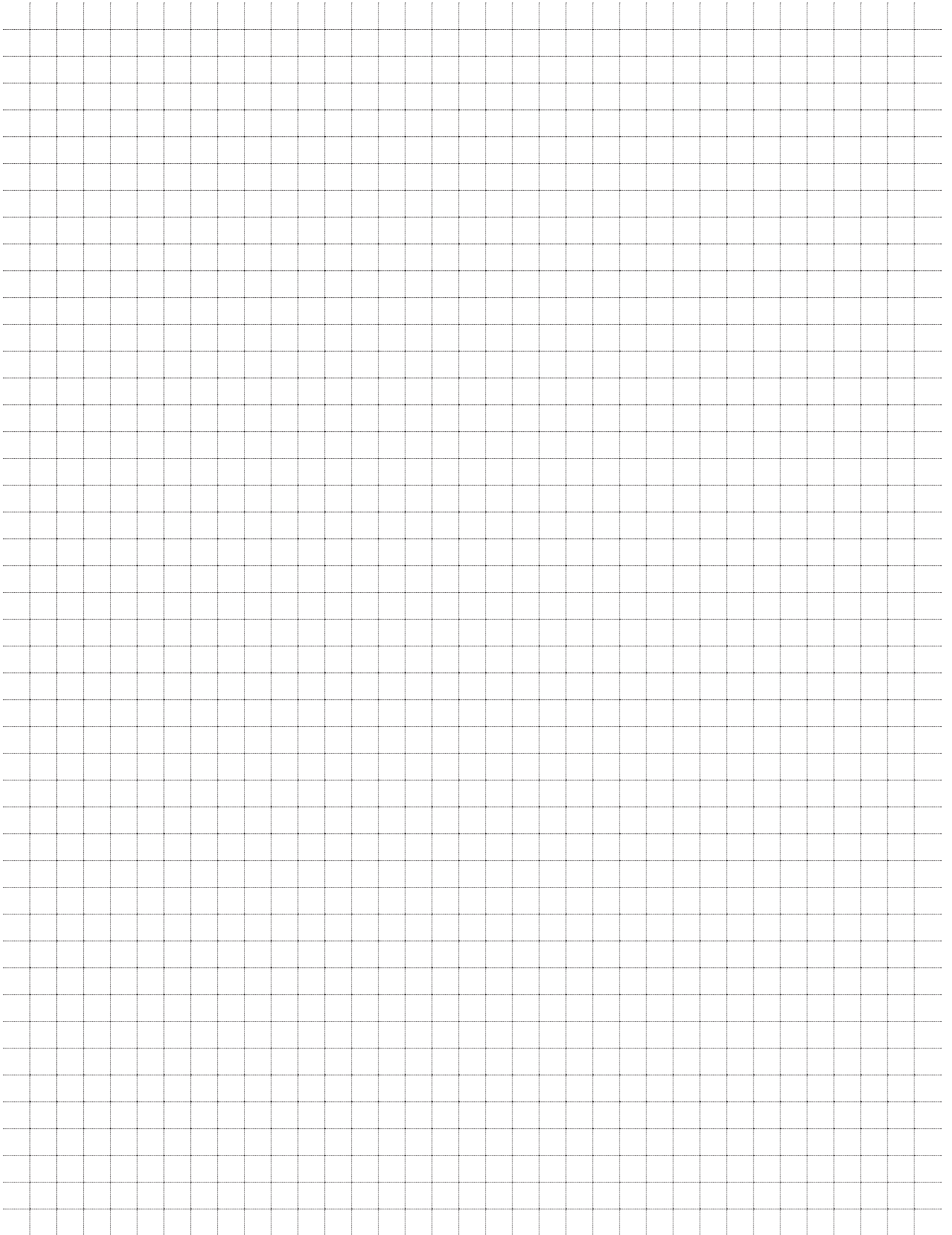


⚠ ATTENTION

- LITE BT (§ 5.3) Control Module enter automatic pairing mode for 1 minute as soon as they are connected to the power supply (the red LED will remain on): within this time interval, it is possible to skip "step 1" of the Transmitter-Module pairing procedure.
- By default, the receiver modules do not have any paired transmitters saved in their memory: before pairing a radio-frequency Transmitter with a Receiver Module, ensure that the MEC LITE Driver is correctly working/ powered and that the module is firmly connected to the power supply.
- It is possible to pair multiple radio Transmitters (up to 5) with a single compatible Receiver Module, and a single Transmitter with multiple compatible Receiver Modules (up to 6). Multiple Receiver Modules can be paired on the same transmitter channel.
- The pairing procedure must be repeated for each transmitter channel you wish to use and on each module (§ 6.6) connected in a continuous line to the MEC LITE driver.
- For more detailed information on pairing procedures, always refer to the instruction manual included with the purchased module.

5.5 - Troubleshooting

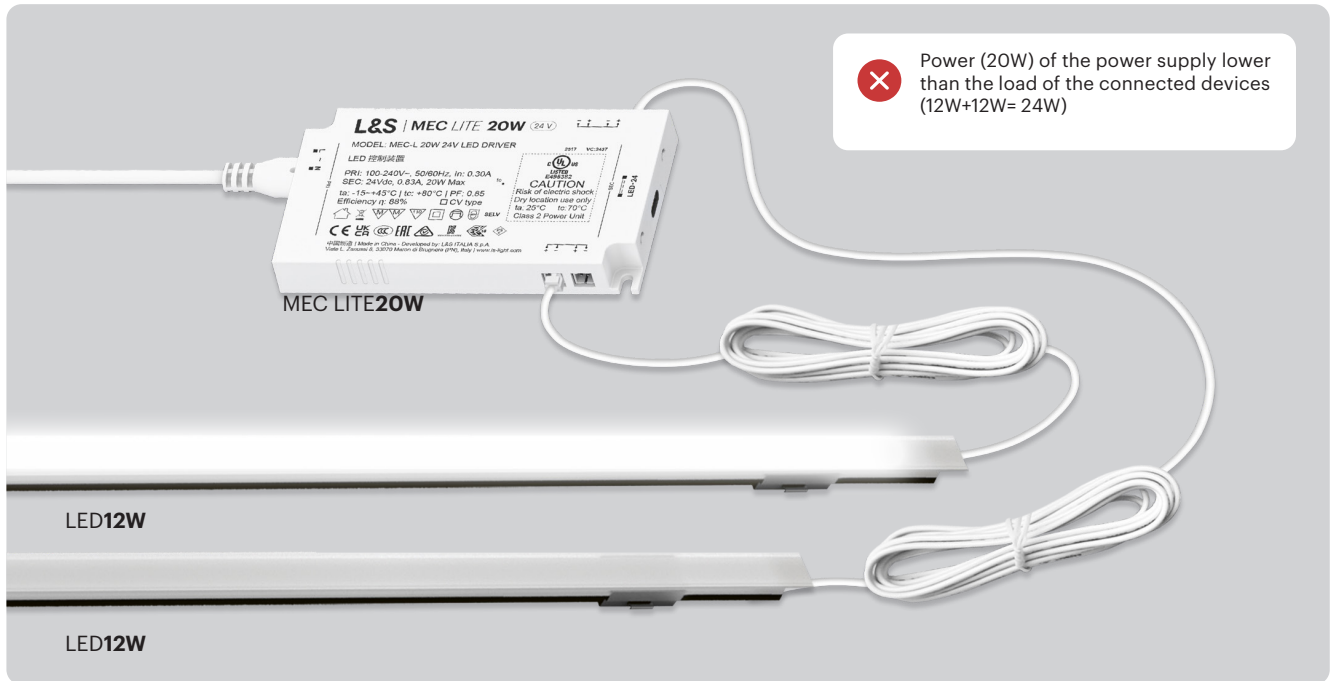
SYMPTOM	POSSIBLE CAUSE	SOLUTION
The MEC LITE power supply does not work	Connection	Check that the power supply's power cable or the receiver module are correctly connected.
The power distributor integrated into the MEC LITE power supply does not respond to the commands of a Radio Transmitter	Functionality	The integrated Power Distributor only provides power to the connected lighting fixtures: it does not have an internal radio frequency control unit for remote use via transmitters.
I have two Receiver Modules connected in line to MEC LITE but only one responds to the commands of a Radio Transmitter	Pairing	Check that the Transmitter pairing procedure has been correctly carried out on all Modules connected to the power supply.
The Radio Transmitter does not work	Pairing	Check that you have followed every step of the Transmitter pairing procedure with the Receiver Module.
	Battery	Replace the transmitter battery with one of the same model/voltage.
I cannot change the color temperature of the Dual Color fixtures connected to a control module	Control Module Version	Ensure that the module used is the EDC compatible version and not a MONO version.
I have a LITE BT module and I cannot control the connected devices	App	Ensure you have downloaded (App Store or Play Store) the correct App developed by L&S (LITE BT) and that it is updated to the latest version. If necessary, restart or proceed with a new installation.
	Pairing	Verify that you have correctly performed the Bluetooth pairing procedure.
	Bluetooth	Verify that Bluetooth is correctly enabled on your smartphone
I have a LITE BT module and I cannot control the connected devices via voice assistant	Functionality	LITE BT modules can be controlled via Smartphone exclusively through the dedicated Bluetooth App.



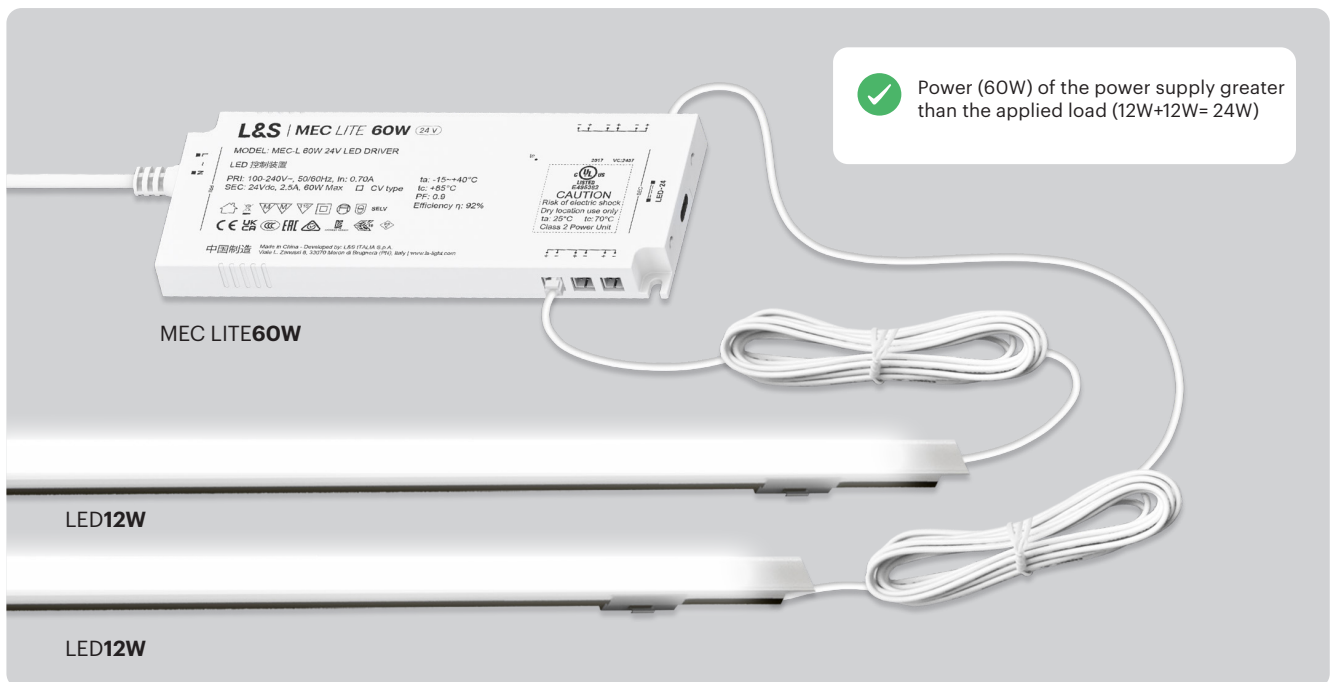
6. Common mistakes | MEC LITE Platform

6.1 - Undersized power supply

When the power supplied by the Driver (W) is lower than the total LED load (W) of the connected fixtures, these flash with a strobe effect. In the example below, the 20W MEC LITE power supply cannot support the total load of 24W of the connected fixtures.

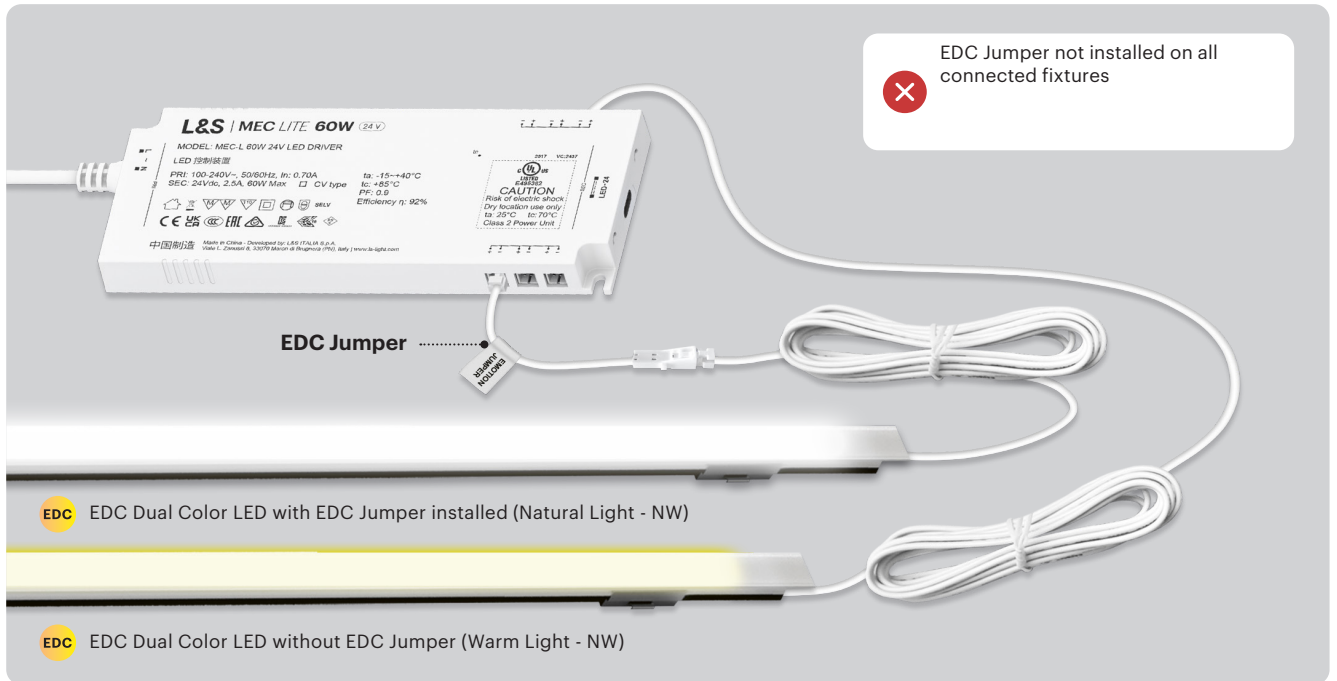


Use a power supply with a Power Higher than the total LED load of the connected fixtures: in the example below, the 60W MEC LITE is suitable to support the total load of 24W.

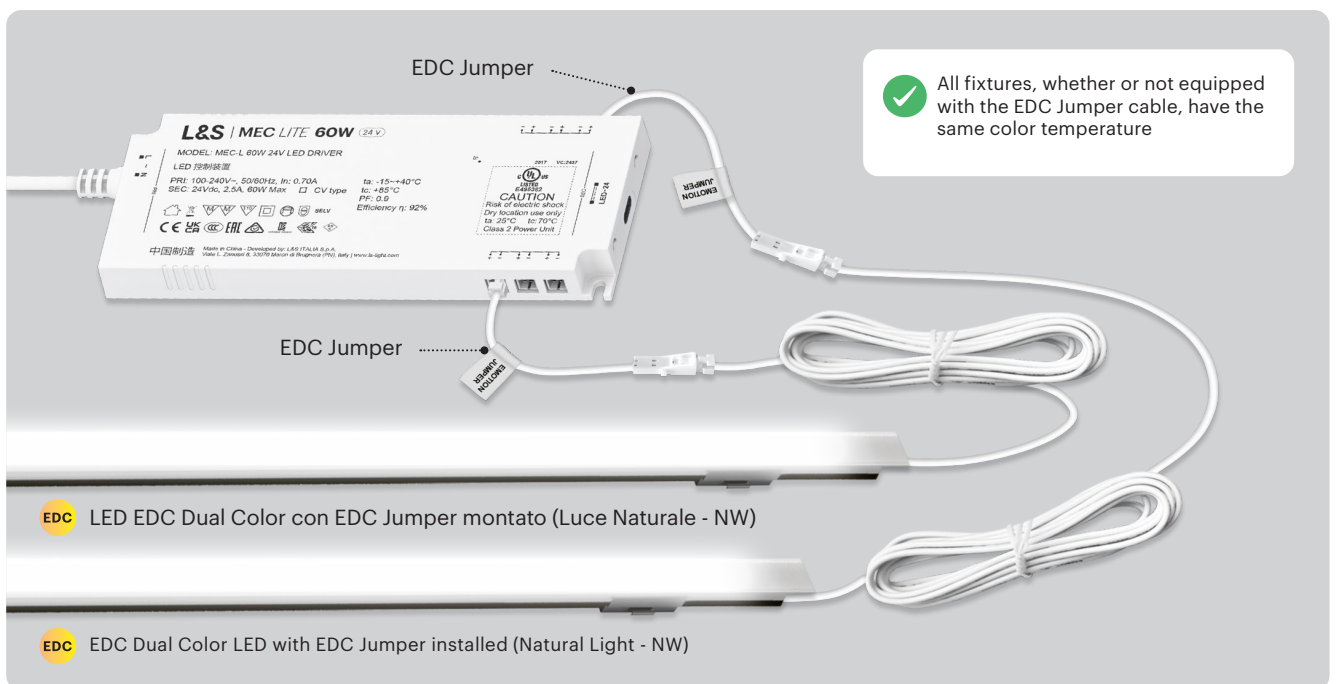


6.2 - Different color temperatures

Dual Color lighting fixtures (§ 2.1) connected to the power supply turn on by default at the warmest available color temperature (Warm White). If the EDC Jumper cable is connected (§ 2.2) the fixture changes its color temperature from warm to natural (Natural White).

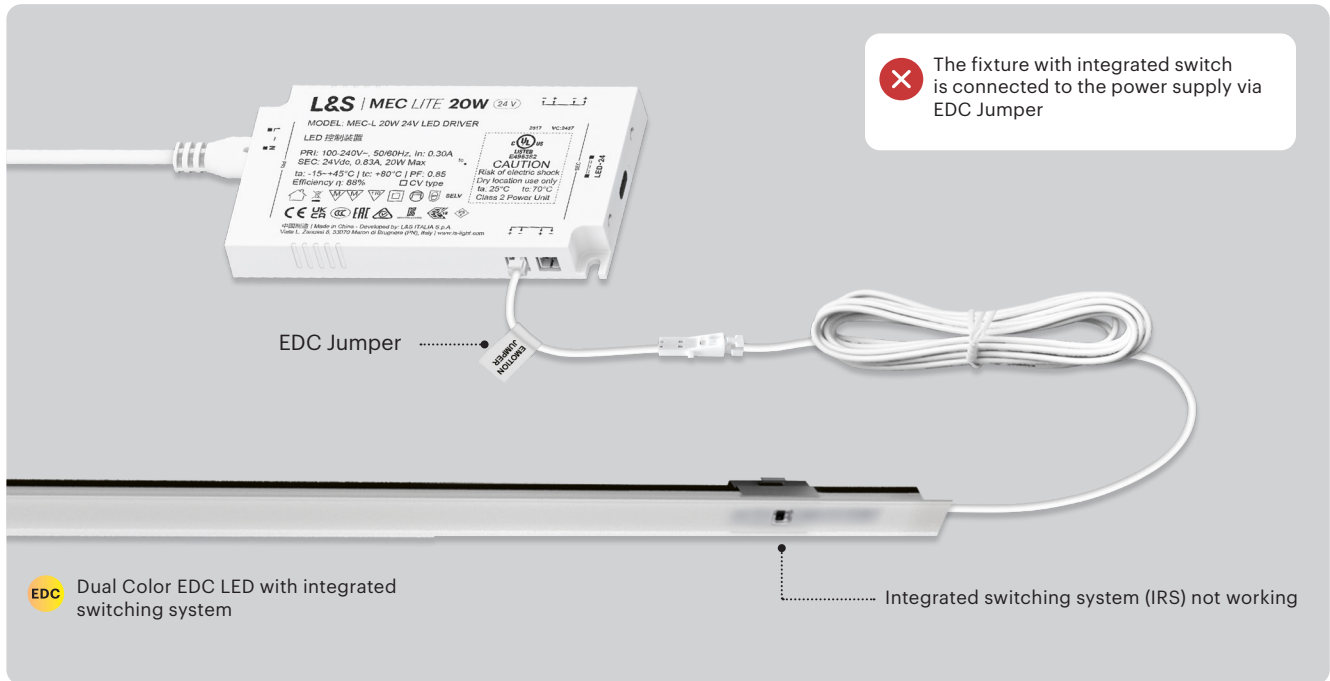


Always ensure that all fixtures are either equipped / not equipped with EDC Jumper to maintain uniformity in the color temperature of the lighting fixtures connected to the power supply

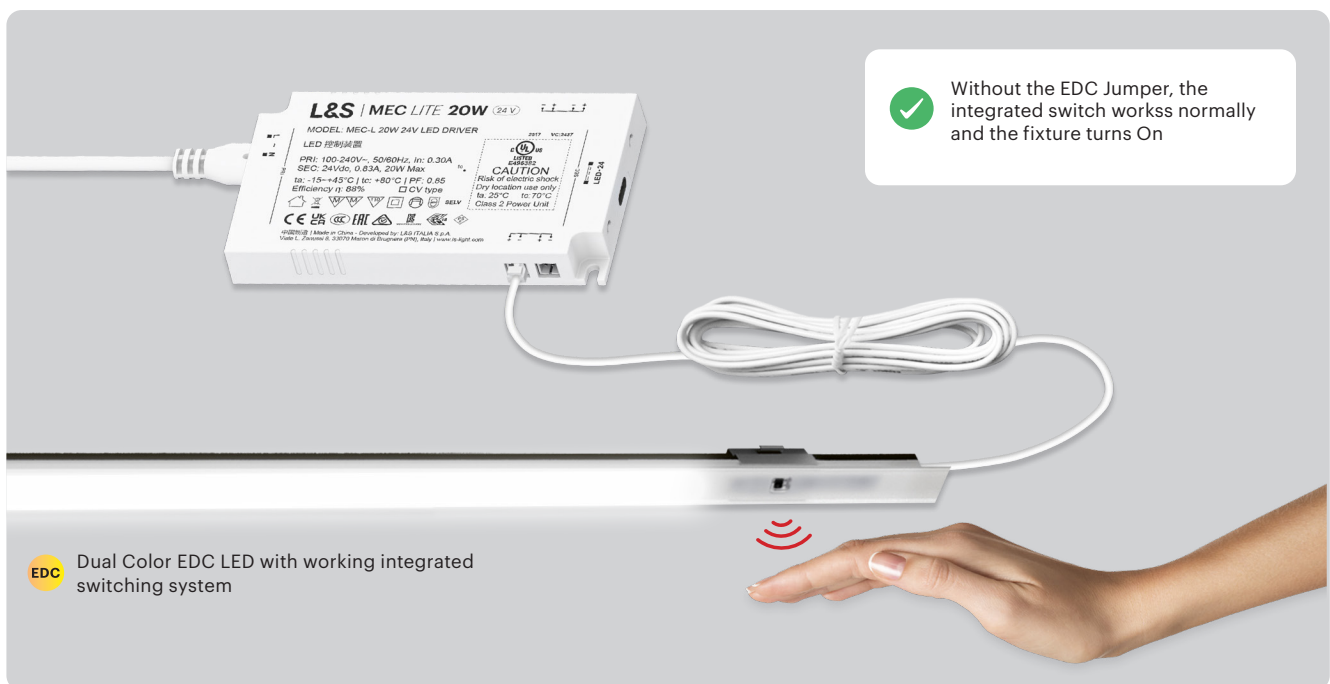


6.3 - Connection of fixtures with integrated switching

If the EDC Jumper cable (§ 2.2) is used with a Dual Color lighting fixture (§ 2.1) equipped with an integrated control system (§ 3) a malfunction will occur and the fixture will not turn On.

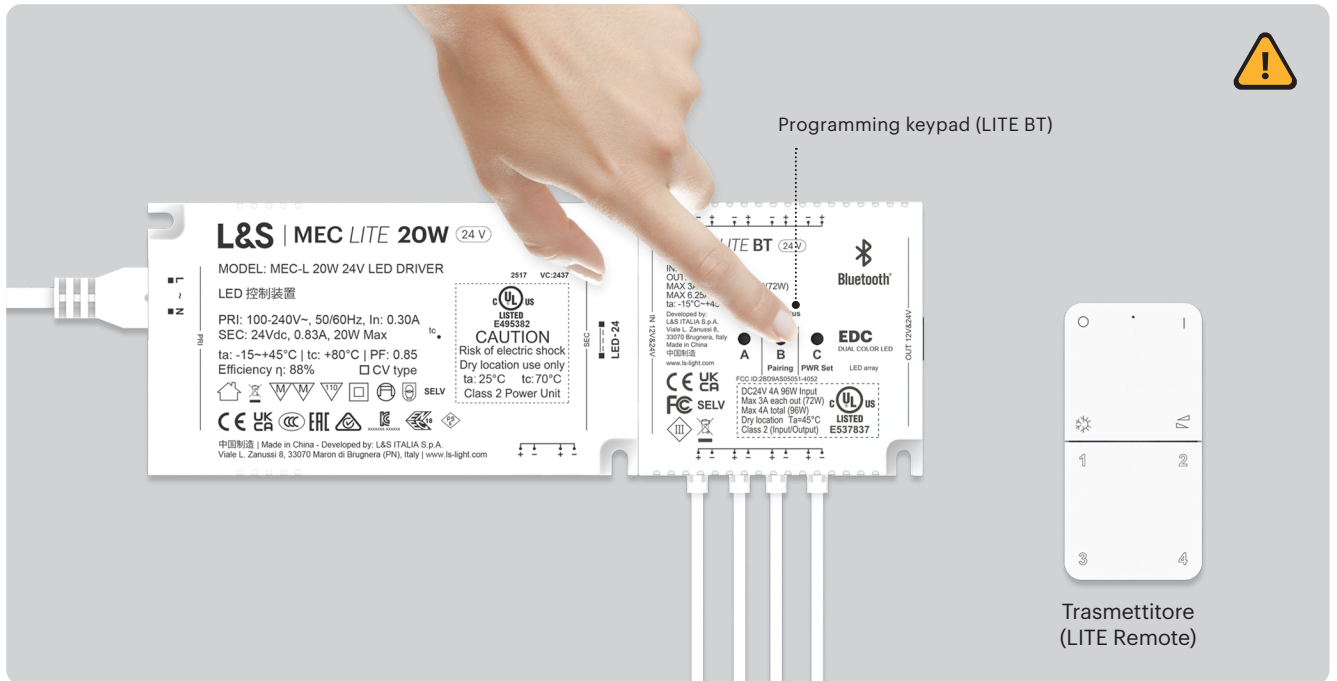


Ensure that Dual Color lighting fixtures equipped with an integrated switching system are connected directly to the power supply without the aid of the EDC Jumper cable.

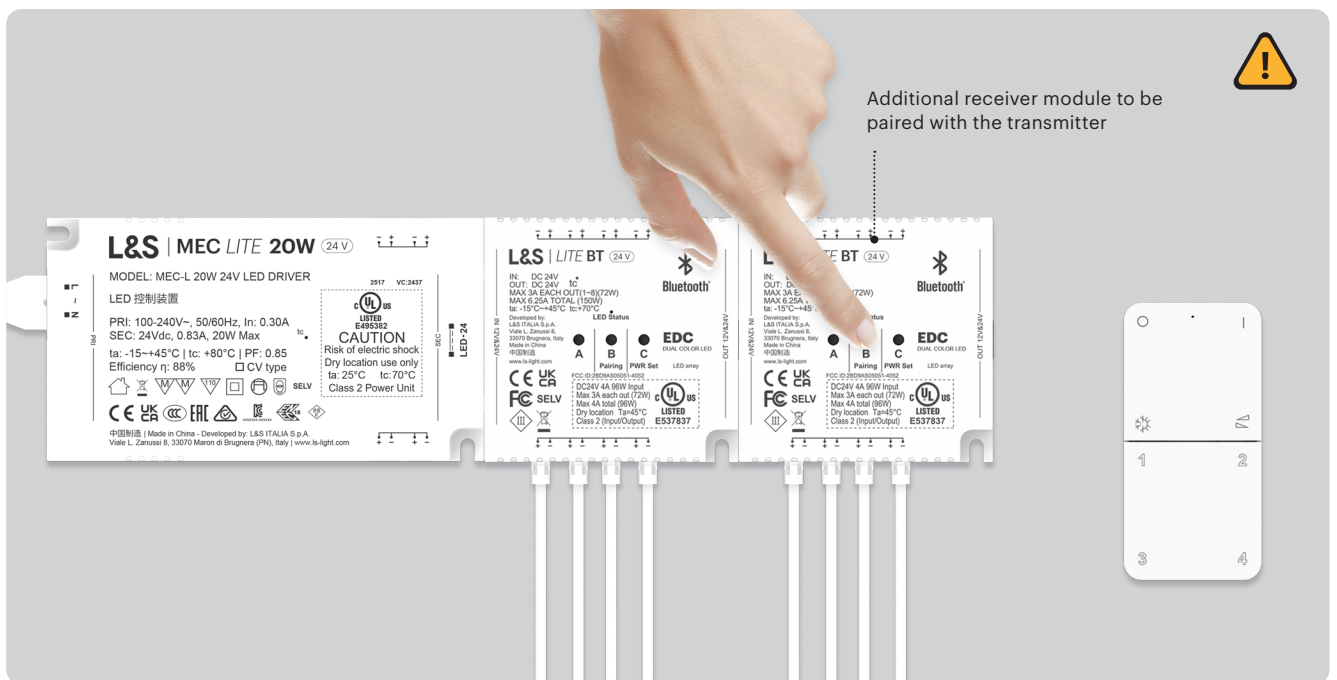


6.6 - Pairing a transmitter with multiple in-line receiver modules

In order to use a transmitter (§ 5.4) with a compatible radio frequency Receiver Module (§ 5.3) it is necessary to carry out the relevant pairing procedure (refer to the Module's manual) by accessing the programming keypad of the Module used.



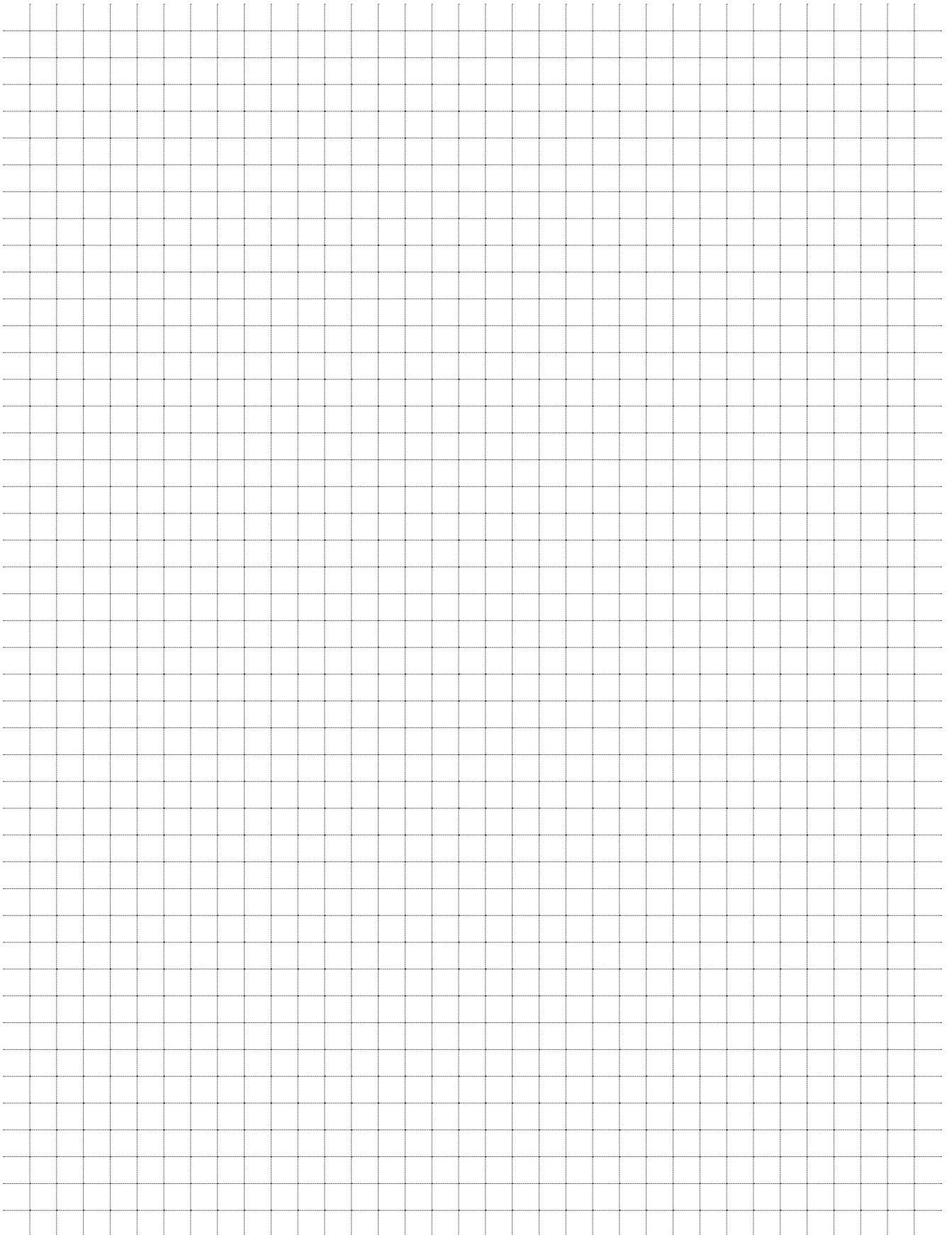
When multiple modules are connected in a line, it is always necessary to perform the transmitter pairing procedure on all connected modules to be able to control them via the transmitter.



NOTE

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

NOTE



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