PLATEO/ALTUM INSTALLATION MANUAL

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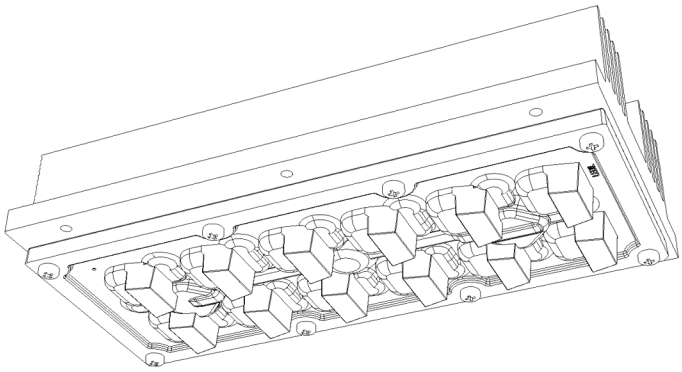
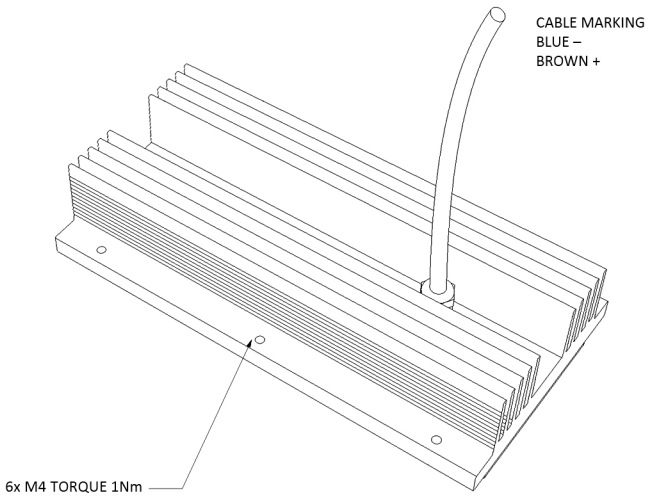
1



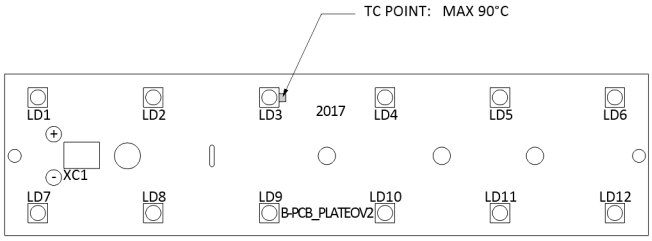
UNPACK PLATEO/ALTUM MODULE

2



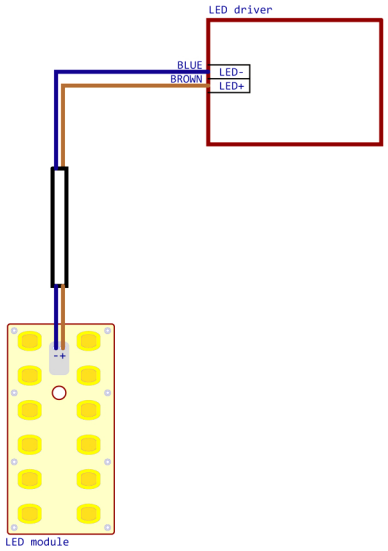
CONNECT TO DRIVER

3



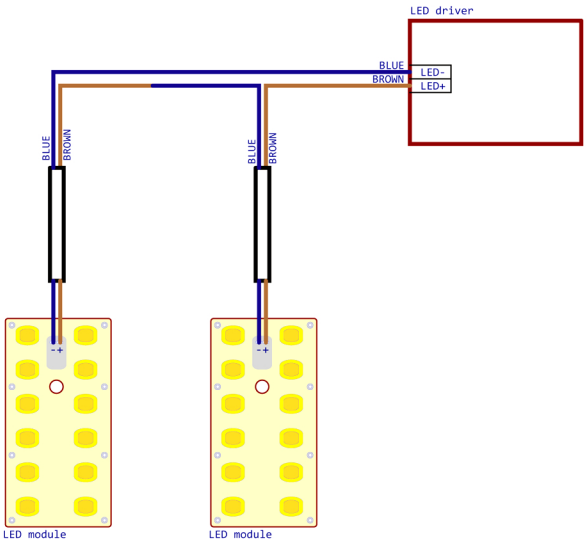
LED MODULE SCHEME

4



CONNECTION 1 MODULE

5



CONNECTION 2 MODULES SERIAL

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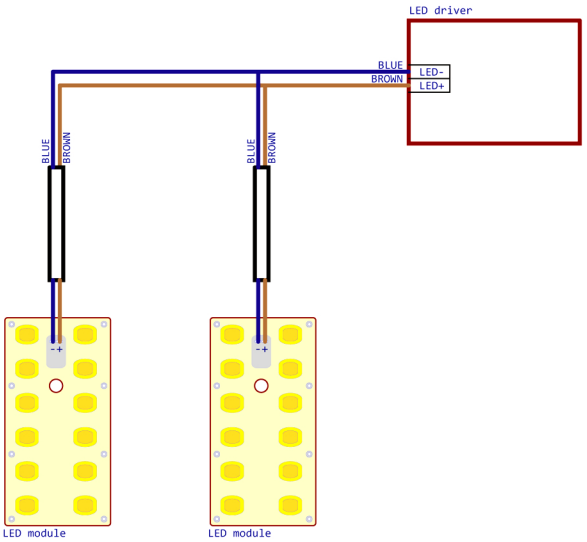

CONNECTION 2 MODULES PARALLEL

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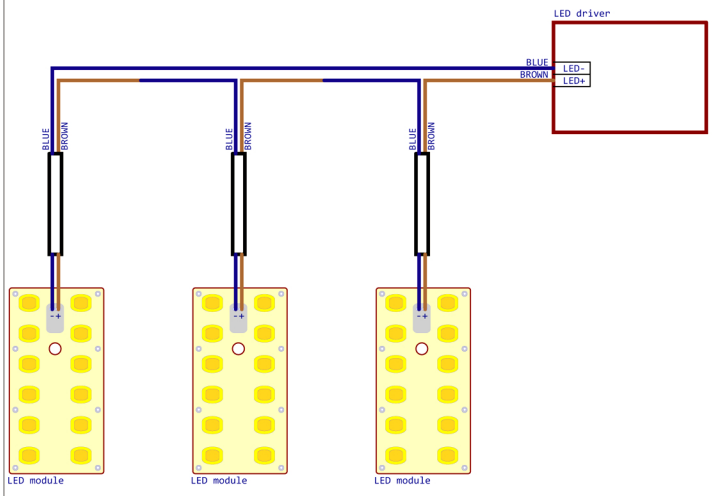
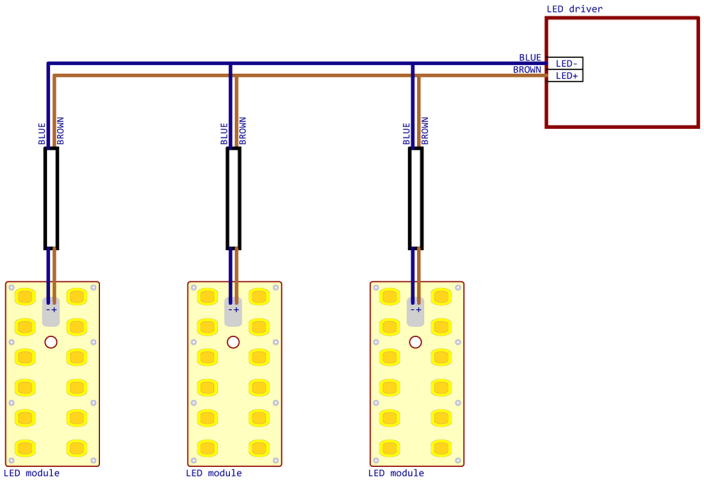


CONNECTION 3 MODULES SERIAL

8



CONNECTION 3 MODULES PARALLEL

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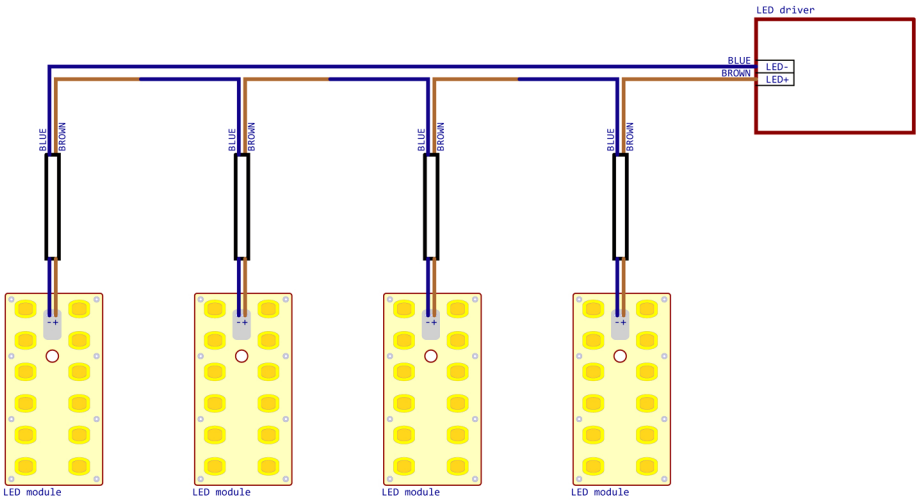

CONNECTION 4 MODULES SERIAL

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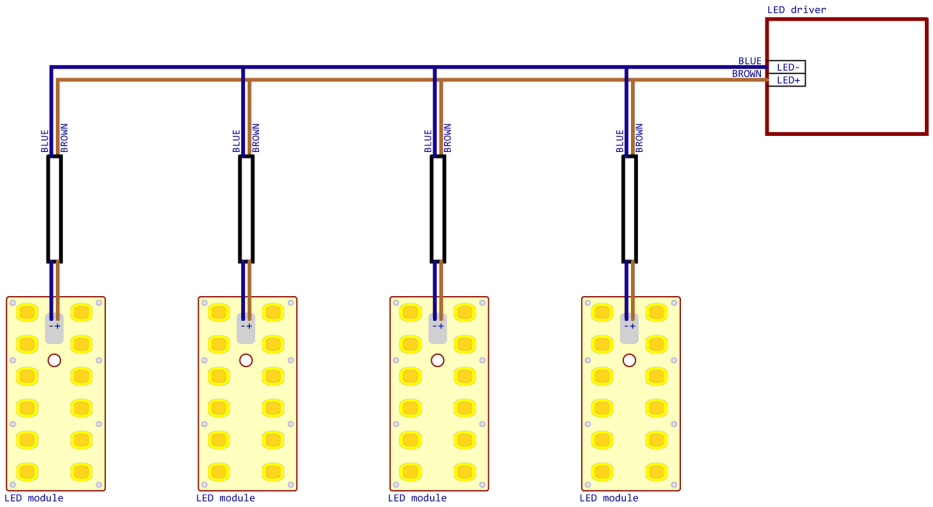

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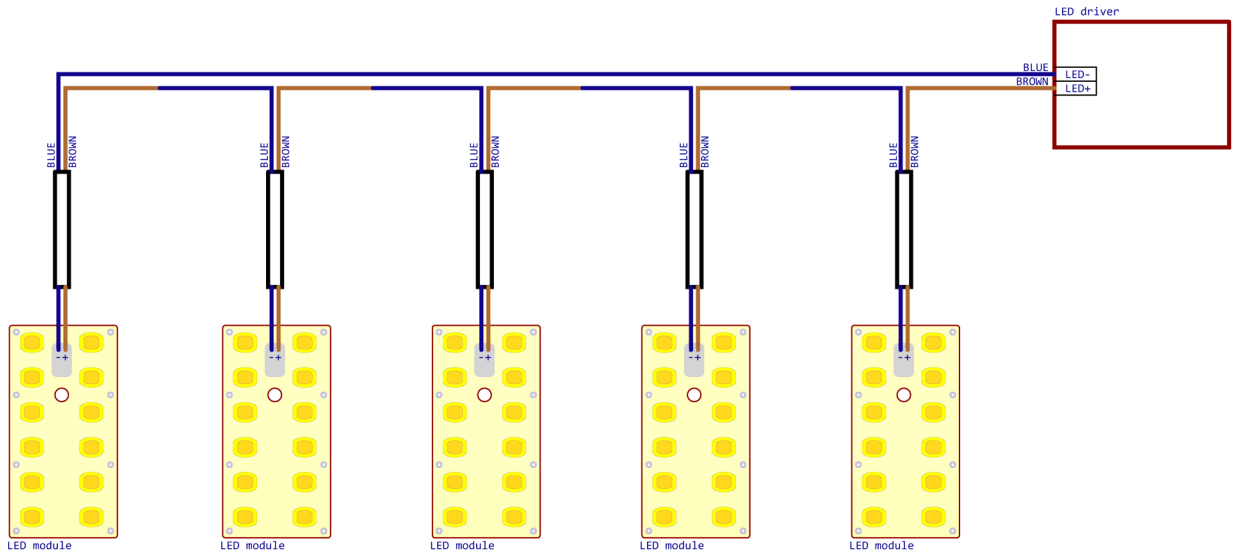
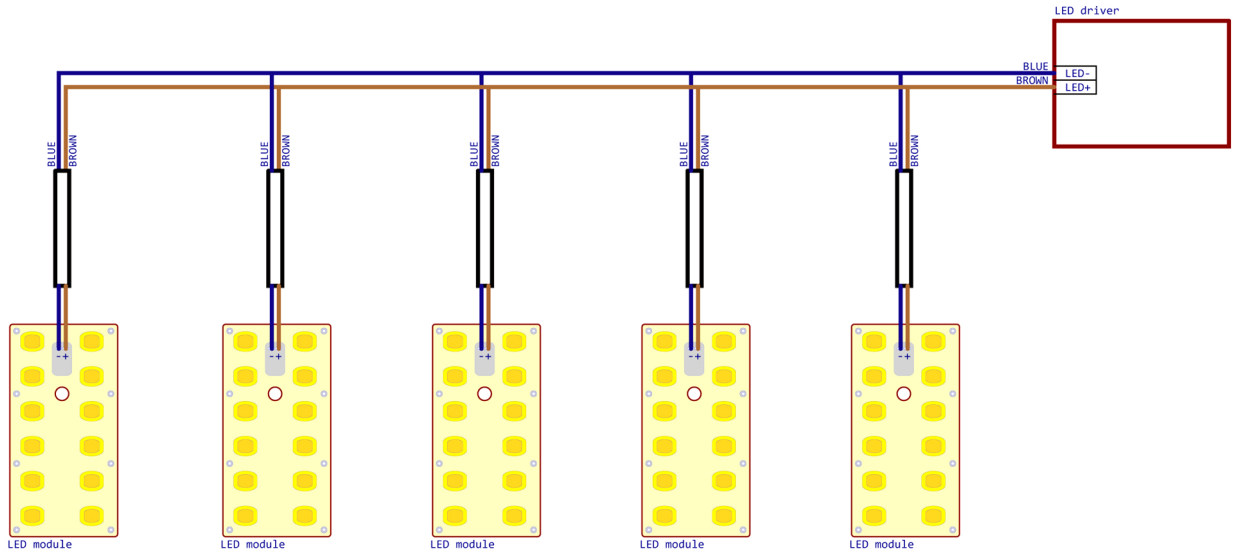
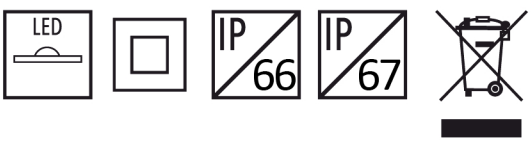


CONNECTION 5 MODULES SERIAL

12



CONNECTION 5 MODULES PARALLEL



EN Do NOT stare at the lightsource.

EN The light source of the lamp can not be replaced. When the light source reaches its end of life the whole luminaire shall be replaced.

EN The fitting cannot be covered with insulating material.

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MOUNTING INSTRUCTIONS FOR PLATEO / ALTUM 3IN1 IP66/IP67 MODULES

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TECHNICAL DETAILS

Current supply: depending on driving current (please check module datasheet)
Ambient temperature Ta: up to +50 °C (negative ambient temperature depends on control gear used)
Maximum temperature @ Tc: up to +90 °C
Storage temperature: -40 to +85 °C
Protection rating: IP66 and IP67
Max. current load: up to 900 mA
Luminous flux degradation: L80/B20 >100,000 hours at tp/tc = 75 °C @ 700 mA
CE requirements: IEC/TR 62778
Photobiological safety: in accordance with IEC 62471:2006 standard “Photobiological safety of lamps and lamp systems”, PLATEO / ALTUM 3in1 modules belong to risk category “Exempt Group” for general lighting service and “Risk Group 2” for all other light sources

SAFETY INSTRUCTIONS

- PLATEO / ALTUM 3in1 modules may only be installed and commissioned by authorised and qualified personnel.
- Please read these instructions carefully prior to installing and commissioning the system as this is the only way to ensure safe and proper system operation. You are recommended to keep these instructions in a safe place for possible future reference.
- Any work undertaken on a device must only be performed after disconnection from the mains.
- Relevant safety and accident prevention measures must be observed.
- Products must never be improperly opened since electrical voltage poses a risk to life. Repairs must only be performed by the manufacturer.
- Connecting feeder/supply lines to external voltage, e.g. 230 V mains voltage, can destroy individual system components.

MOUNTING

IlumTech PLATEO / ALTUM 3in1 modules are designed for illumination in industrial indoor and outdoor areas, and roads.

The module is determined for use within a housing. Please use the 6 mounting holes on the long side of the heatsink to mount the module in the final position. Please take care that the optical part of the module is free from mechanical obstacles that could influence the light distribution curve. Thermal behavior of the module can change due to the final installation in a luminaire body. The module is suitable for environments that require high ingress protection; please consider this in your luminaire design if the final use of the luminaire is in such areas.

INSTALLATION INSTRUCTIONS

- When using one or several modules, the feed-out line connector must be attached to the feed-in connector of the following module, or the control gear feed-in line if using only one module.
- All feed lines (in and out) must be protected against humidity and water ingress with an IP-rated connector.
- Connect the control gear feed-in line to the control gear unit.
- Check the polarity of the control gear feed-in line (brown + / black -).
- Modules can be connected in parallel or serial.
- Attach the control gear feed-in line to the connector of the (first) 3in1 module feed-in line.
- Calculate the total power uptake of all connected 3in1 modules and compare the value with the data supplied for the connected control gear. Should the control gear’s permissible total power uptake be exceeded, it must be replaced with an adequately rated control gear unit.
- Connect the control gear to the power supply in accordance with the installation instructions.
- Each PLATEO / ALTUM 3in1 module is fitted with a pre-assembled feed-in line and feed-out line without connectors to allow producers maximum freedom in selecting accessories (on request we can also supply an appropriate connector).
- In the case of connecting more modules together, if necessary, please contact us to provide you with information about connector possibilities according to your application.

FURTHER INFORMATION

If the distance between the control gear and the (first) 3in1 module is too great to be bridged using the feed-in lines of the control gear and the 3in1 module, an extension (please use appropriate connectors) or junction box will be necessary.

Should an extension lead be used to connect PLATEO / ALTUM 3in1 modules that are farther away, the unavoidable electrical resistance of the extension lead will cause a more pronounced voltage drop, which in turn can impair the functionality of the PLATEO / ALTUM 3in1 modules.

PLATEO / ALTUM 3in1 modules are designed for operation with constant current LED drivers.

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