

LightMAX

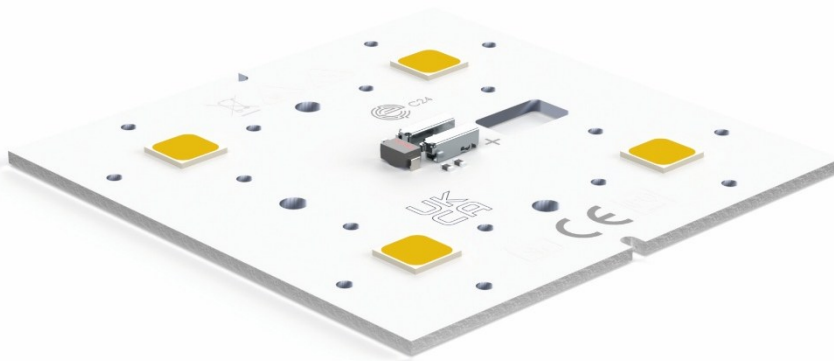
R0C24

2x2 power LED module for STRADA-2X2MX

7 YEARS WARRANTY



CC CONSTANT CURRENT



FEATURES

- PCB dimension: 70x70mm
- Up to 5702 lm
- Up to 207 lm/W
- CRI 70
- Max Electrical Insulation 250Vdc
- Max 10 LED boards in series in S2P2
- Connection type: 2xBJB PICO NAKED 1 POLE
- Lifetime > 60000 @ 700mA
- Designed for LEDiL STRADA-2X2MX

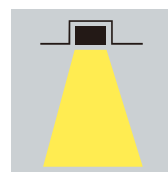
APPLICATIONS



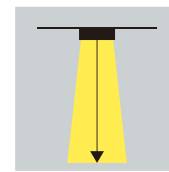
Street



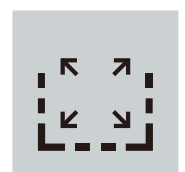
Industrial



Downlight



High Bay



Area

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2x2 power LED module for STRADA-2X2MX **7** YEARS WARRANTY **CC** CONSTANT CURRENT

CC Version – S2P2

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	Lm/W	Energy Efficiency
R0C24012770	2700K	70	350	21.4	7.5	1423	190	C
			700	22.1	15.5	2768	179	C
R0C24013070	3000K		350	21.4	7.5	1457	194	C
			700	22.1	15.5	2858	184	C
R0C24014070	4000K		350	21.4	7.5	1552	207	B
			700	22.1	15.5	3019	195	C
R0C24015070	5000K		350	21.4	7.5	1542	206	B
			700	22.1	15.5	3000	194	C

Flux tolerance +/- 10% @Tc 65°C
Vf Tolerance +/- 5%

Ask for more information about available LED and other options.

CC Version – S4P1

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	Lm/W	Energy Efficiency
R0C24012770	2700K	70	350	44.2	15.5	2768	179	C
			700	46.4	32.5	5228	161	D
R0C24013070	3000K		350	44.2	15.5	2858	184	C
			700	46.4	32.5	5424	167	D
R0C24014070	4000K		350	44.2	15.5	3019	195	C
			700	46.4	32.5	5702	175	C
R0C24015070	5000K		350	44.2	15.5	3000	194	C
			700	46.4	32.5	5665	173	C

Flux tolerance +/- 10% @Tc 65°C
Vf Tolerance +/- 5%

Ask for more information about available LED and other options.

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LED and board features	
LED number	4
LED type	7070
Circuit	S2P2/S4P1
Material	Aluminium
Solder	White (black on request)
Connections	
Cable	AWG 24-18
Connector	BJB PICO NAKED 1 POLE (46.110.1001.48)
Power	
Abs. Max Input current CC	1200mA @S4P1
Mechanical Data	
L x H	70x70mm
Thickness	4.3mm
Conditions	
Max. temp. (Tp)	+110°C
Max. temp. (Tc)	+100°C
Operating temp. Range	-35°C +60°C

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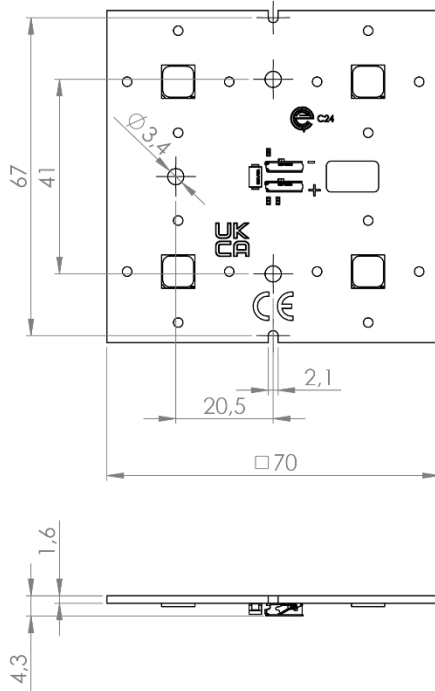
2x2 power LED module for STRADA-2X2MX

7 YEARS WARRANTY

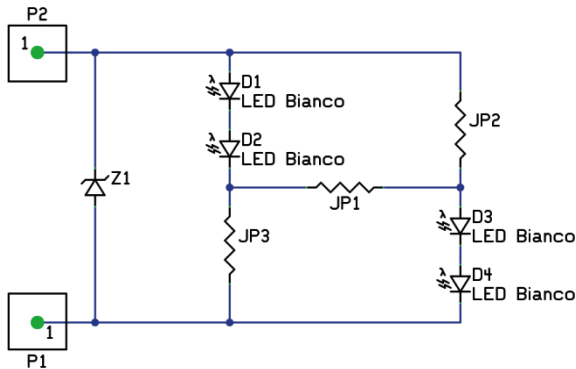


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MECHANICAL DRAWING



ELECTRICAL CIRCUIT



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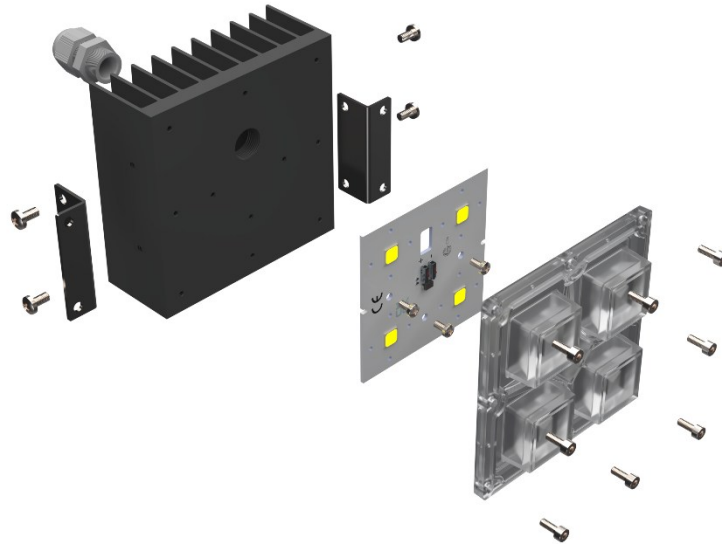
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Accessories



7 YEARS WARRANTY

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LED optics: LEDiL STRADA-2X2 series	
Models	STRADA-2X2MX-8-T4-B, STRADA-2X2MX-8-DWC, STRADA-2X2MX-8-SCL, STRADA-2X2MX-8-VSM, STRADA-2X2MX-8-T2-S, STRADA-2X2MX-8-T2. STRADA-2X2MXS-DWC2, STRADA-2X2MXS-T2, STRADA-2X2MXS-T4-B, STRADA-2X2MXS-T3, STRADA-2X2MXS-VSM. HB-2X2MX-8-M, HB-2X2MX-8-W, HB-2X2MX-8-WWW. HB-2X2MXS-M, HB-2X2MXS-WW, HB-2X2MXS-WWW.
Dimension - Type	4 in 1 IP
Material/Operating temperature	MX series – PMMA MXS series – Silicone/ PMMA: -40°C ~ +70°C Silicone -40°C ~ +200°C
Efficiency	>90%
Heat sink: HS-PM1802-00	
Dimension	100X100X40,5mm
Material/Finish	Black anodized aluminum
Thermal wattage	40W
Power supply: S4P1 & S2P2 version - DBLD040C105DRx	
Dimensions (LxWxH)	158x68x33.5mm
Protection type	IP67 – 10kV surge protection
Output	23-57Vdc – Settable current
Input	90-305VAC

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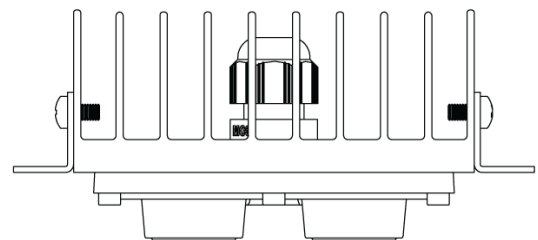
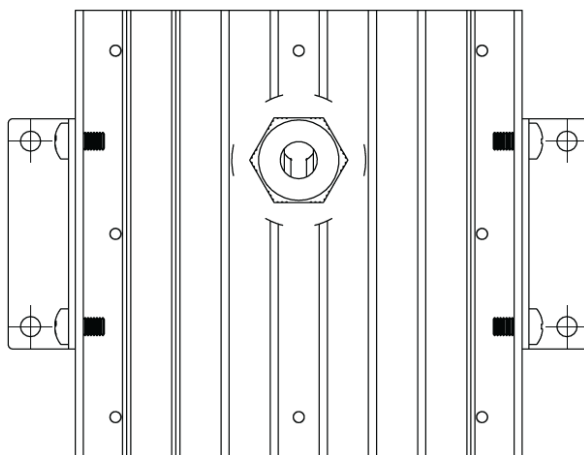
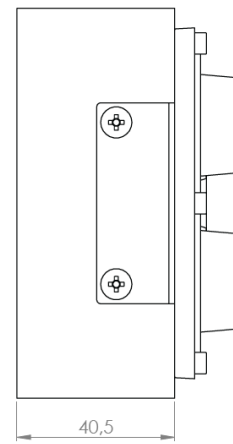
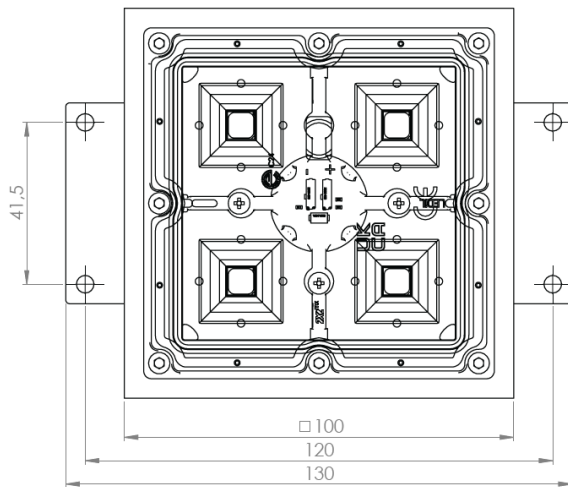
Accessories



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DRAWING - IP 2x2 RELAMPING KIT



ASSEMBLY AND SAFETY INFORMATION

The LED modules are designed to be incorporated in a final appliance. Installation must be carried out under observation of the relevant regulations and standards. Installation must be carried out in a voltage-free state (i.e. disconnected from the mains). Additionally, the following advice must be observed; non-observance can result in electrical, mechanical and/or fire hazards.

- ESD (electrostatic discharge) protection measures must be observed when handling and installing the LED modules.
- Transient protection measures (as per IEC 61000-4-5), especially for outdoor applications, must be observed (e.g. SPD).
- Adequate anti-static electricity measures, including the use of conductive shoes, ionizers, work bench grounding, wrist straps, flooring and stools should be used.
- LED assembly modules must not be subjected to any undue mechanical stress, e.g.:
 - Do not treat as bulk cargo.
 - Avoid sharing and compressive forces during handling and installation.
 - Do not damage circuit paths.
 - Avoid any pressure on the light emitting surface.
- Safe operation is only possible using proper external sources (e.g: constant current sources - I_{max}. see table "Electrical Characteristics").
- Operate only with power supply units that feature the following protection:
 - Short-circuit protection
 - Overload protection
 - Overheating protection
- The module can be fixed with M3 screws. They are recommended to be fixed only with flat or cylinder head screws (M3) (no countersunk screws – if not differently specified). Max. torque: 1.2 Nm (M3)
- Please ensure the correct polarity of the leads prior to applying power. Reversed polarity can destroy the modules.
- For interconnection, the LED modules are usually equipped with push-in terminals. Custom connectors are available upon request during the project bidding stage.
- General Safety regulations acc. to IEC/EN 60598-1 (or specific standards related to different lighting applications) must be observed.
- The following points must be observed when connecting LED modules in parallel:
 - All LED strings that are wired in parallel must contain the same number of LEDs (symmetrical loading).
 - Owing to differing forward voltage, there can be a difference of up to 10% in brightness between modules connected in parallel.
 - For this installation setup, please notify us when placing your order.
- To ensure problem-free operation, the specified maximum temperature at the tp point (see "Operating Life") must be observed (and measured in accordance with IEC 62717 – Annex H).
- In the event of outdoor applications or applications in damp locations, care must be taken to protect LED modules against humidity, splashes and jets of water. Any corrosion damage resulting from humidity or contact with condensation will not be recognized as a defect or manufacturing fault. LED modules are not specifically protected against foreign bodies or dust. Depending on the type of application, further protection must be provided to prevent ingress.
- Due to the manufacturing process, the PCBs of the LED modules can have sharp edges and corners. Care must therefore be taken during handling and installation to avoid injury.
- Constant current drivers require for an optimal usage that the modules are connected in series. For this type of usage, there must be ensured that the quantity of LED modules is limited by the sum of forward voltage and the capacity of used constant current driver. Safety regulations acc. to IEC/EN 60598 must be observed if the sum of forward voltage exceeds the permitted touchable value.
- There is a list of chemical substances (as sulfur) that has been proved to make the LED module damaged. Also, in chemically enriched (aggressive) environments the LED module functionality can be compromised, or they can even cause total module failure. Keep attention to this aspect before installing the LED module.
- The photobiological safety of the LED modules must be classified into risk groups in accordance with IEC/EN 62471 and IEC/EN 62471-7.

APPLIED STANDARDS

IEC / EN 62031

LED modules for general lighting – Safety specifications

IEC 62717

LED modules for general lighting - Performance requirements

IEC/EN 60598-1

Luminaires – Part 1: General requirements and tests

IEC/EN 62471

Photobiological safety of lamps and lamp systems

IEC 61000-4-5

Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test