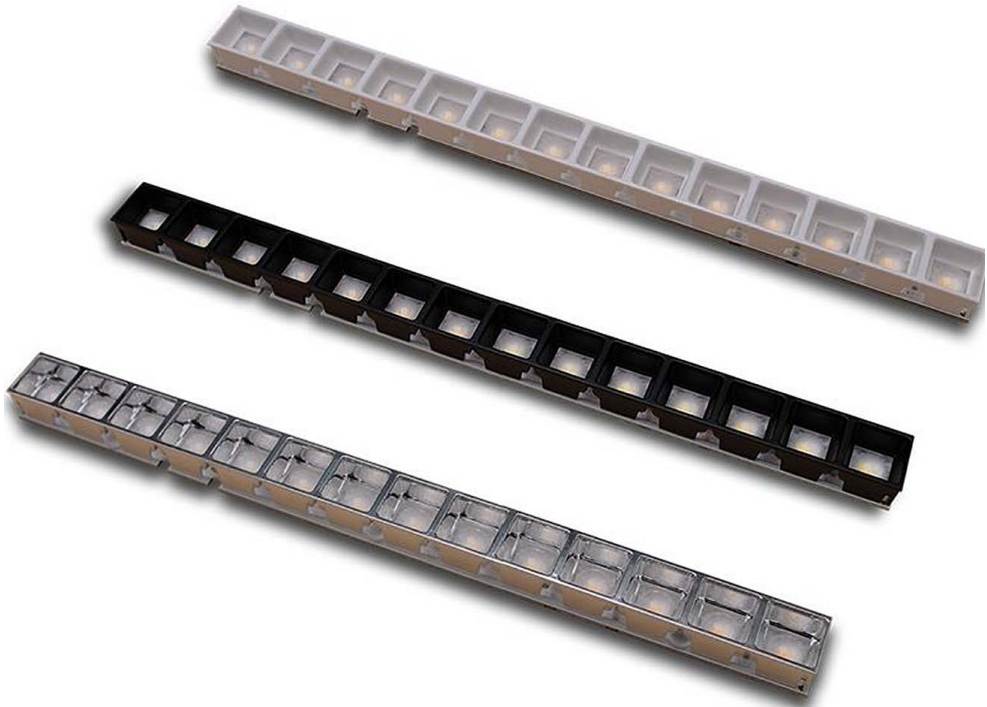


LineMAX

Linear lighting solutions



W/TW linear LED module
280x20mm, 14 LEDs
with Daisy-Mini lens

280x20mm linear module, 14 LEDs, White/Tunable White



Features

- PCB dimension: 280x20mm, suitable for LEDiL Daisy-Mini lens
- Up to 1050 lm
- Up to 162 lm/W
- CCT TW 2700+5700K
- CRI 80, 90, 98
- CV 24V version available
- Max Electrical Insulation 250V, Max 5 LED boards in parallel
- Connection type: 2059
- Lifetime >60000h @ 300mA L70B10
- Available in White single CCT



Applications



Indoor



Commercial

280x20mm linear module, 14 LEDs, White/Tunable White

Code CC version	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen* [lm]	lm/W
R172911WWCW100	2700K	80	240	21,7	5,30	630	119
	5700K		240	21,7	5,30	700	132
R1729113080100	3000K	80	300	21,5	6,45	930	144
R1729114080100	4000K		300	21,5	6,45	1050	162
R1729113090100	3000K	90	300	21,5	6,45	785	120
R1729114090100	4000K		300	21,5	6,45	850	130

Code CV version	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen* [lm]	lm/W
R172911WWCW101	2700K	80	240	24	5,76	630	109
	5700K		240	24	5,76	700	121
R1729113080101	3000K	80	300	24	7,20	930	129
R1729114080101	4000K		300	24	7,20	1050	145
R1729113090101	3000K	90	300	24	7,20	785	109
R1729114090101	4000K		300	24	7,20	850	118

* Typical Value refers to datasheet Tj=25°C
Flux Tolerance +/- 10%
Vf Tolerance +/-0,05V

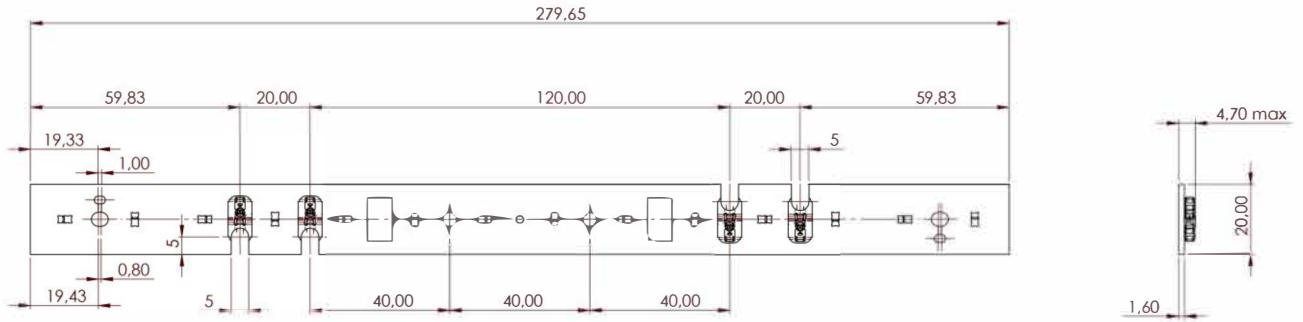
*Value refers to Spectrometer test
Test Conditions:
Temperature: 26°C Int. 24,31°C
Humidity: 25%

280x20mm linear module, 14 LEDs, White/Tunable White

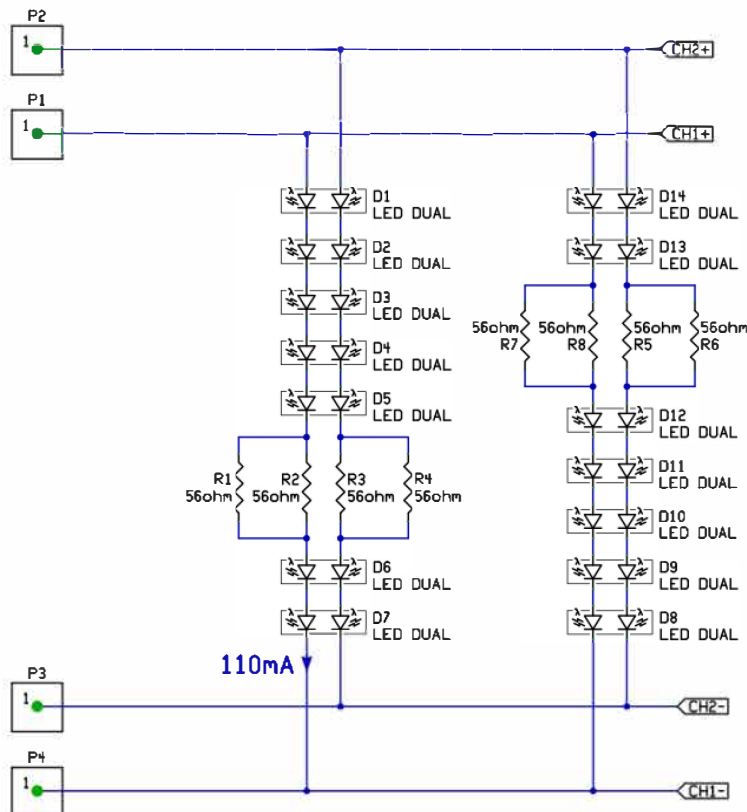
Led and board features	
Led number	14
Led	2835 Single or Tunable Led Warm White + Cool White
Circuit	S7P2 configuration
Material	FR4 2 layers
Solder	White
Connections	
Cable	Solid 0,14 ÷ 0,34 mm ² / 26 ÷ 22 AWG
Connector	Wago 2059 Series 1 Pole
Power	
Abs. Max Input current CC /CV	400mA / 26,5Volt
Mechanical Data	
H x L	279,6x20mm
Thickness	4,3
Conditions	
Max. temp. (Tp)	80°C
Max. temp. (Tc)	85°C
Operating temp. Range	-25°C +50°C

280x20mm linear module, 14 LEDs, White/Tunable White

Mechanical drawing



Electrical circuit



CV Version
CC Version the R1...R8 = 0 Ohm

Accessories: Daisy-Mini lens



Specifications	
View Angle (Fwhm)	30°/55°/65°
Material	PMMA + PC
Family name	LEDiL DAISY-MINI
Product description	
Type	FN17035_DAISSY-MINI-M / FN17036_DAISSY-MINI-W / FN17037_DAISSY-MINI-WW
Efficiency	>85%
Use Temperature	Optic 80°C max
Certification	TBA

For any further information about lens
 you can have a look at LEDiL website: www.ledil.com

Assembly and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. The LED modules are designed for operation within a casing or luminaire. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains).

The following advice must be observed; non-observance can result in the destruction of the LED assembly modules, fire and/or other hazards.

- Consider safety regulations acc. EN 60598 in the luminaire design, especially when the operating LED driver is not galvanic isolated.
 - In mode of operation regard to sufficient isolation.
 - Live parts must not be touched in operation mode. Danger in life!!!
- ESD (electrostatic discharge) protection measures must be observed when handling and installing the LED modules. See VS's application notes on ESD protection.
- 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 shear and compressive forces during handling and installation
 - do not damage circuit paths
 - avoid any pressure on the light emitting surface
- Safe operation only possible by the use of external constant current sources (Imax. see table "Electrical Characteristics").
- Operation 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. Fixation only with flat or cylinder head screws (M3) (no countersank screws) Max. torque: 1.2 Nm (M3)
- Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- For interconnection the LED modules is equipped with push-in terminals (WAGO 2060).
- Safety regulations acc. to EN 60598 (or further standards) has to be observed if the maximum output voltage exceed the permitted touchable value.
- 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 biases, there can be a difference of up to 10% in brightness between modules connected in parallel.
- To ensure problem-free operation, the specified maximum temperature at the tp point (see "Operating Life") must be observed (and measured in accordance with EN 60598-1). To satisfy this point, it may be necessary to put measures in place to ensure any heat is dissipated from the PCB to the environment.
- In the event of outdoor applications or applications in damp locations, care must be taken to protect LED assembly 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 assembly modules are not specially protected against foreign bodies or dust. Depending on the type of application, further protection must be ensured to prevent dust and foreign bodies from entering.
- Due to the manufacturing process, the PCBs of the LED assembly modules can have sharp edges and corners. Care must therefore be taken during handling and installation to avoid injury.
- For optimal load of used constant current driver the modules can only be connected in series. 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 EN 60598 has to be observed if the sum of forward voltage exceed the permitted touchable value.
- Operating LED modules in the presence of certain chemical substances or in chemically enriched (aggressive) environments can impair module functionality or even cause total module failure.
- The photobiological safety of the LED modules must be classified into risk groups in accordance with IEC / TR 62778:
 - risk group 1 (except HB, 6500 K, > 500 mA: risk group 2)

Applied Standards

IEC / EN 62031
LED modules for general lighting – Safety specifications

IEC / TR 62778
Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires