

Linear LED modules 280x24mm LINNEA-GC2

A linear solution for premium class indoor lighting. Optimized for LEDiL's LINNEA-GC2 and BJB Pitch-dependent Linear Single Row Optics.

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- 2C - two connectors for series system, also recognized as a high voltage system - non-SELV
- Available CCT from 2700K to 6500K and CRI 70, 80, 90



LinLED CRI 80

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ² φ [lm]	Useful luminous flux ² [lm]	Voltage ¹ Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ² [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 280x24mm 1100lm 830 2C 24V LINNEA-GC2	1010 127 16946	3000	280	1067	1097	23	6.3	169	30	1050	D
LinLED 280x24mm 1100lm 840 2C 24V LINNEA-GC2	1010 127 17046	4000	280	1133	1165	23	6.3	179	30	1050	C

¹At nominal current and T_p

²At nominal current and 25°C

³It is recommended not to operate below minimum current in order to avoid un-even brightness

Tolerance range for optical and electrical ±10%

Temperature & humidity

Specification item	Unit	Value
T _p	[°C]	45
T _p rated	[°C]	65
T _c	[°C]	85
Relative humidity (non-condensing)	[%]	5 ... 85
Storage ambient temperature	[°C]	-25 ... +85
Storage relative humidity (non-condensing)	[%]	5 ... 85

T_p - Temperature related to the performance parameters of the LED modules

T_p rated - Maximum operating temperature to which the rated performance characteristics are declared

T_c - Highest permissible value for safe operation

Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031		built-in
Working voltage	[Vdc]	350
Beam angle	[deg]	120
Initial color consistency	[SDCM]	3
Photobiological safety		RG1 unlimited

Color coordinates

According to CIE 1931

Specification item	CIE _x	CIE _y
2700K	0.4578	0.4101
3000K	0.4338	0.4030
4000K	0.3818	0.3797
6500K	0.3123	0.3282

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Certificates & standards

Specification item	Compliant
ENEC	No
CE	Yes
RoHS	Yes
REACH	Yes
Zhaga	Comply with Book 7
IP rating	No IP rating

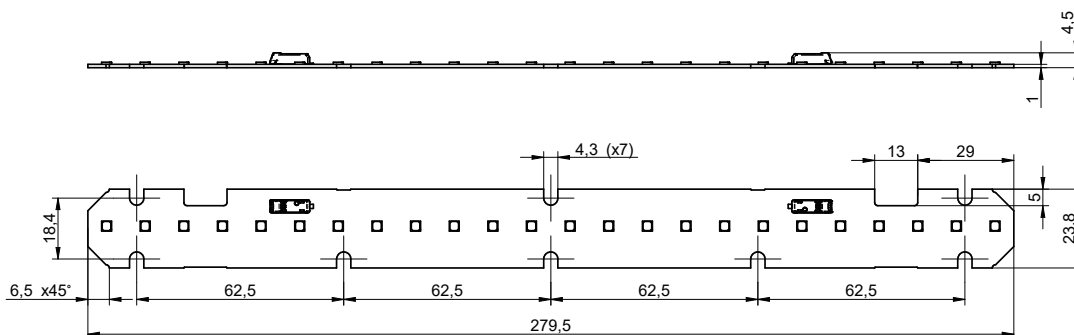
Lumen maintenance

LinLED CRI 80

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>54 000	>54 000	>54 000	>54 000	>54 000	>54 000
	55°C	>54 000	>54 000	>54 000	>54 000	>54 000	>54 000
	65°C	>54 000	>54 000	>54 000	>54 000	>54 000	>54 000
If max	45°C	>54 000	>54 000	>54 000	>54 000	>54 000	50 000
	55°C	>54 000	>54 000	>54 000	>54 000	>54 000	45 000
	65°C	>54 000	>54 000	>54 000	>54 000	52 000	42 000

reported data based on LM80 LED data 9 000h

Dimensions



Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only rounded head screws. Additionally plastic flat washer should be used to ensure creepage distance between screw's head and surface of the pcb. Max. torque for fixing: 0,5Nm.

LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

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Wiring

Wire cross section and strip length:



D - wire cross section (solid and flexible wires)	Min	Max
	0.2mm ²	0.75mm ²
	AWG 24	AWG 18

L - strip length	Min	Max
	8mm	9mm

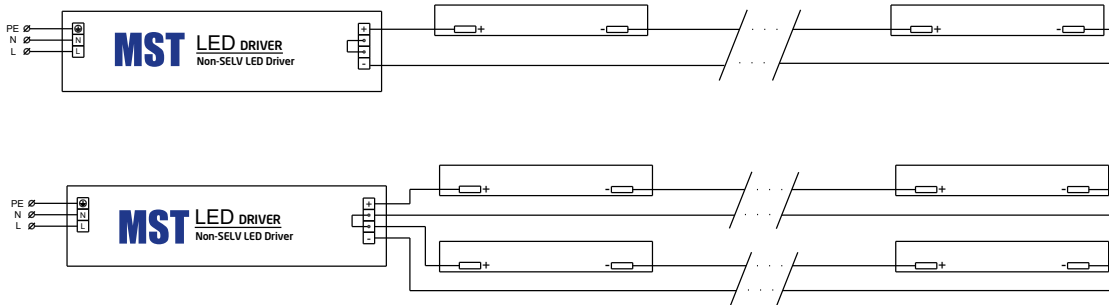
Opening for the release of wires from the top with release pin Electroterminal art. 881 167 884:



Connections

Max number of modules	Unit	Series	Parallel
LinLED 280x24mm...	[pcs]	15	-

Wiring for series connection system (2C)



Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
LinLED 280x24mm 1100lm 830 2C 24V LINNEA-GC2	1010 127 16946	135	14580	298 x 238 x 88
LinLED 280x24mm 1100lm 840 2C 24V LINNEA-GC2	1010 127 17046	135	14580	298 x 238 x 88