

Linear LED modules 550lm/1ft 4C

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE, ENEC
- 4C - four connectors for parallel system, also recognized as a low voltage system - SELV
- Available CCT from 2200K to 6500K and CRI 80, 90 and 95



LinLED CRI 80 Optimum G2

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux* Φ [lm]	Voltage* Vf [V]	Power* P [W]	Efficacy* [lm/W]	Current maximum If max [mA]
LinLED 280x20mm 550lm 830 4C 36V Opt G2	1010 117 94446	3000	90	529	35	3.1	170	150
LinLED 560x20mm 1100lm 830 4C 36V Opt G2	1010 117 94546		180	1057	35	6.2	170	300
LinLED 280x20mm 550lm 840 4C 36V Opt G2	1010 117 94646	4000	90	553	35	3.1	178	150
LinLED 560x20mm 1100lm 840 4C 36V Opt G2	1010 117 94746		180	1107	35	6.2	178	300

*At nominal current and Tp
Tolerance range for optical and electrical ±10%

Temperature & humidity

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

Tp - Temperature related to the performance parameters of the LED modules
Tp rated - Maximum operating temperature to which the rated performance characteristics are declared
Tc - Highest permissible value for safe operation

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Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031	[V]	built-in
Energy Efficiency Class		A++
Beam angle	[deg]	120
Initial color consistency	[SDCM]	3
Initial color coordinates		Acc. to CIE 1931
Photobiological safety		RG1 unlimited

Certificates & standards

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

Lumen maintenance

LinLED CRI 80

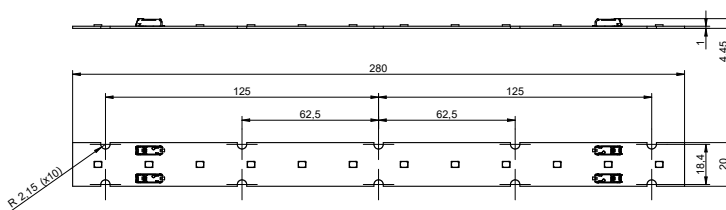
Forward current	Tp temperature	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>60 000	>60 000	>60 000	>60 000	>60 000	>60 000
	55°C	>60 000	>60 000	>60 000	>60 000	>60 000	>60 000
	65°C	>60 000	>60 000	>60 000	>60 000	>60 000	54 000
If max	45°C	>60 000	>60 000	>60 000	>60 000	>60 000	57 000
	55°C	>60 000	>60 000	>60 000	>60 000	>60 000	57 000
	65°C	>60 000	>60 000	>60 000	>60 000	>60 000	51 000

reported data based on LM80 LED data (10 000h)

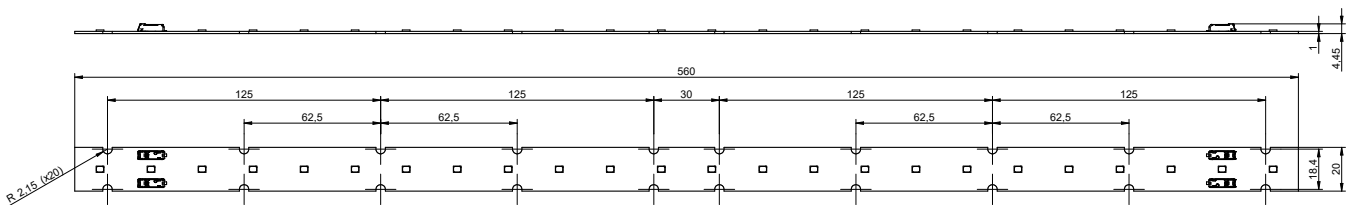
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Dimensions

LinLED 280x20mm



LinLED 560x20mm



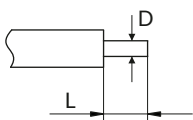
Mounting

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 creepeage 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.

Wiring

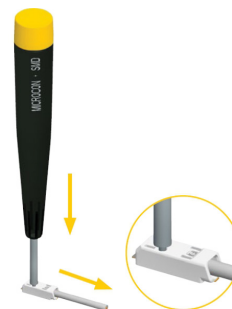
Wire cross section and strip length:



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:



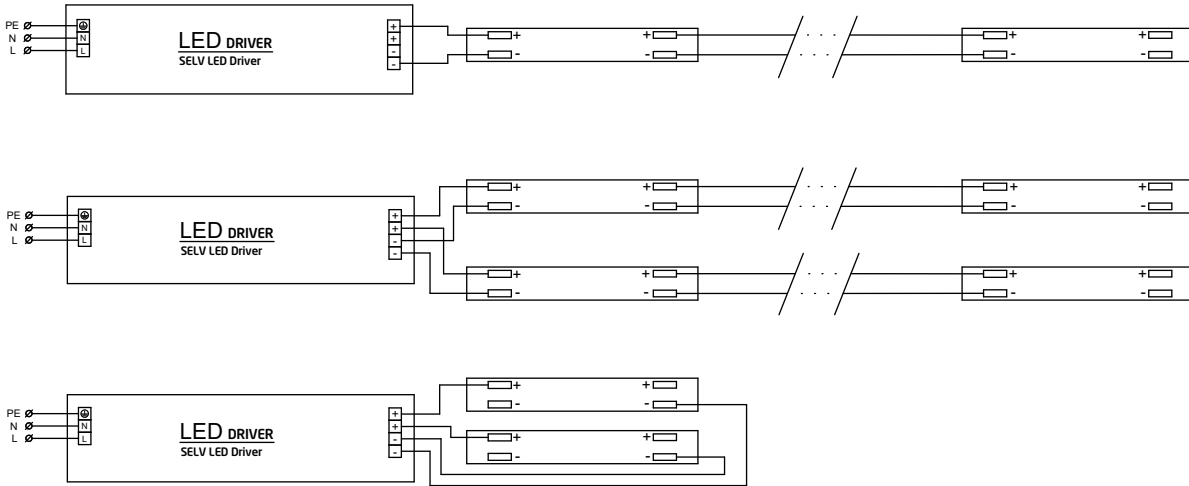
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Connections

Wiring for parallel connection system (4C)

$$I_{\text{driver}} = I_{\text{LED module}} * n \quad n - \text{number of modules}$$

$$U_{\text{driver}} = U_{\text{LED module}}$$



The maximum number of LED modules connected in parallel is limited due to track resistance and must not exceed length of 6ft in total. Building second chain allows to connect more LED modules.

Ordering codes

Specification item	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
LinLED 280x20mm 550lm 830 4C 36V Opt G2	1010 117 94446	187	20196	298 x 238 x 88
LinLED 560x20mm 1100lm 830 4C 36V Opt G2	1010 117 94546	154	8624	594 x 303 x 58
LinLED 280x20mm 550lm 840 4C 36V Opt G2	1010 117 94646	187	20196	298 x 238 x 88
LinLED 560x20mm 1100lm 840 4C 36V Opt G2	1010 117 94746	154	8624	594 x 303 x 58