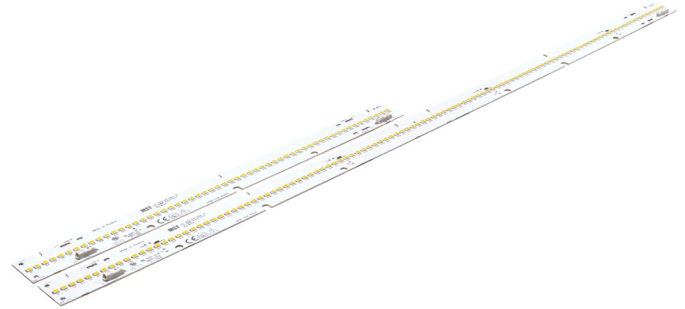


Linear LED modules 2000lm/1ft 2C

Product description

- Long life-time
- Re-workable push-in terminals enabling easy connection
- Compliance and approval : ENEC, CE
- Small colour tolerance (MacAdam3)
- Tolerance range for optical and electrical $\pm 10\%$
- 2C - two connectors for series connection system, also recognized as a high voltage system - non-SELV
- Available CCT from 2200K to 6500K and CRI 80, 90 and 95



LinLED Optimum CRI 80

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp Φ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
LinLED 280x24mm 2000lm 830 2C 42V Opt G2	101011731846	3000	280	1846	40	11	166	600
LinLED 560x24mm 4000lm 830 2C 84V Opt G2	101011732446		280	3691	79	22	167	600
LinLED 280x24mm 2000lm 840 2C 42V Opt G2	101011731946	4000	280	1940	40	11	175	600
LinLED 560x24mm 4000lm 840 2C 84V Opt G2	101011732546		280	3880	79	22	176	600

LinLED Optimum CRI 90

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp Φ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
LinLED 280x24mm 2000lm 927 2C 42V Opt G2	101011769646	2700	330	1680	41	13	130	600
LinLED 560x24mm 4000lm 927 2C 84V Opt G2	101011769746		330	3490	81	27	130	600
LinLED 280x24mm 2000lm 930 2C 42V Opt G2	101011739746	3000	330	1874	41	13	140	600
LinLED 560x24mm 4000lm 930 2C 84V Opt G2	101011739946		330	3748	81	27	140	600
LinLED 280x24mm 2000lm 940 2C 42V Opt G2	101011739846	4000	330	2003	41	13	149	600
LinLED 560x24mm 4000lm 940 2C 84V Opt G2	101011740046		330	4007	81	27	149	600

LinLED Basic CRI 80

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp Φ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
LinLED 280x24mm 2000lm 830 2C 42V Bsc G1	101011737246	3000	335	1926	40	13	144	600
LinLED 560x24mm 4000lm 830 2C 84V Bsc G1	101011737846		335	3852	80	27	144	600
LinLED 280x24mm 2000lm 840 2C 42V Bsc G1	101011737346	4000	335	2085	40	13	151	600
LinLED 560x24mm 4000lm 840 2C 84V Bsc G1	101011737946		335	4049	80	27	152	600

Linear LED modules 2000lm/1ft 2C

Temperatures

Specification item

Tp	45°C	Temperature related to the performance parameters of the LED modules
Tp rated	65°C	Maximum operating temperature to which the rated performance characteristics are declared
Tc	85°C	Highest permissible value for safe operation

Electrical & Optical data

Specification item	Unit	Value
Classification acc. to IEC 62031	[V]	built-in
Energy Efficiency Class		A++
Beam angle	[deg]	120
Initial color consistency	[step]	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
Overheating protection	No

LinLED CRI 80

Forward current	Tp temperature	L70		L80		L90	
		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	52,000
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	54,000
	65°C	>60,000	>60,000	>60,000	>60,000	>60,000	48,000

LinLED CRI 90

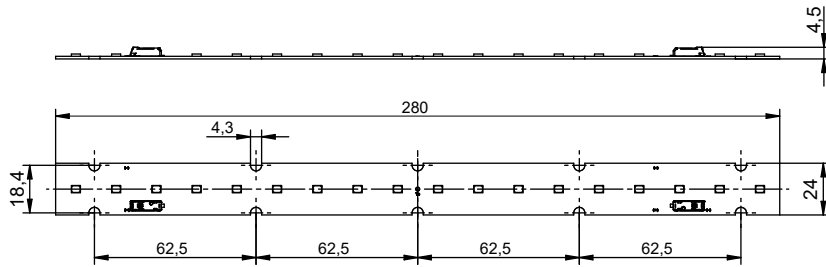
Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>60,000	>60,000	>60,000	>60,000	>60,000	59,000
	55°C	>60,000	>60,000	>60,000	>60,000	55,000	54,000
	65°C	>60,000	>60,000	>60,000	>60,000	49,000	48,000
If max	45°C	>60,000	>60,000	50,000	47,000	28,000	27,000
	55°C	>60,000	>60,000	47,000	44,000	26,000	25,000
	65°C	>60,000	>60,000	44,000	41,000	24,000	22,000

simulation based on LM80 LED data (10,000h)

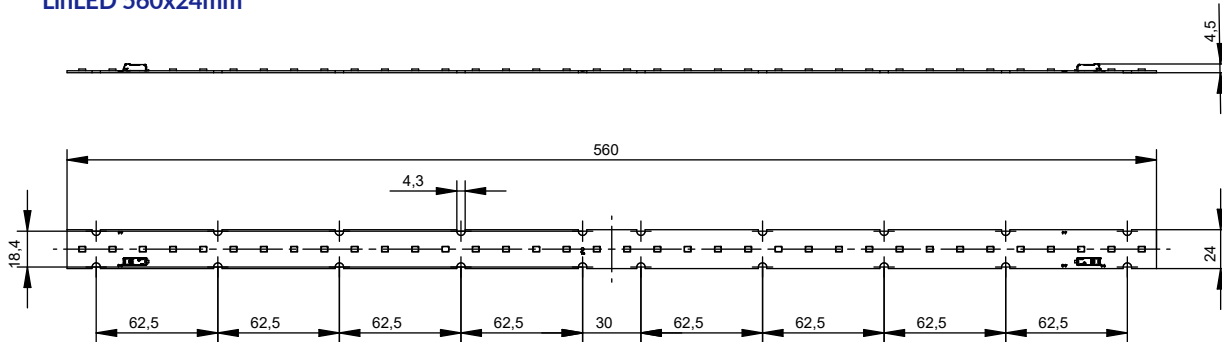
Linear LED modules 2000lm/1ft 2C

Dimensions

LinLED 280x24mm



LinLED 560x24mm



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

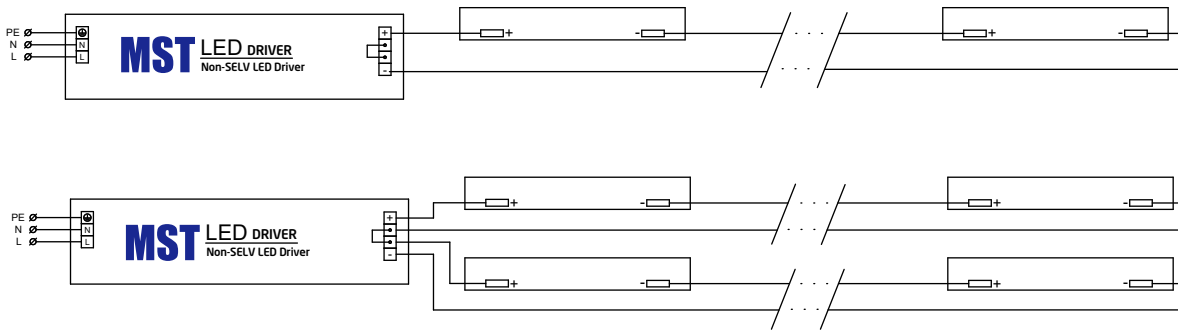
Linear LED modules 2000lm/1ft 2C

Connections

Wiring for serial connection system (2C)

$$I_{\text{driver}} = I_{\text{LEDmodule}}$$

$$U_{\text{driver}} = U_{f_{\text{LED module}}} * \text{No_of_modules}$$

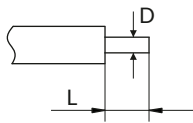


The maximum number of LED modules is limited due to the working voltage of the led module.

The sum of the supply voltages of the LED modules must not exceed the working voltage of the module

Wiring

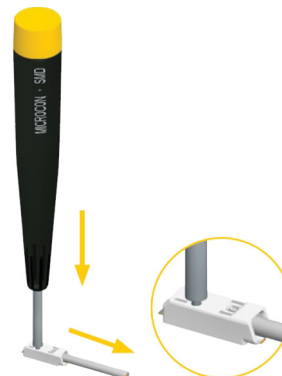
Wire cross section and strip length:



D - wire cross section <i>solid and flexible wires</i>	Min	Max
	0.2mm ²	0.75mm ²
	AWG 18	AWG 24

L - strip length	Min	Max
	8mm	9mm

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



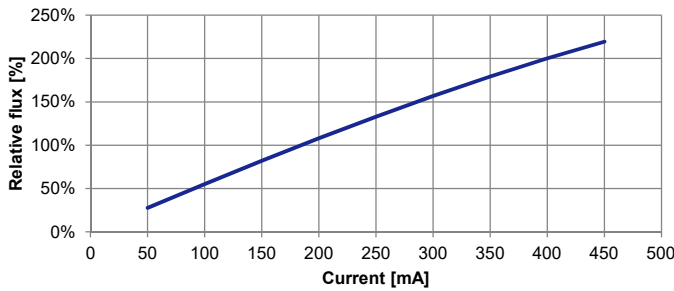
Linear LED modules 2000lm/1ft 2C

Performance

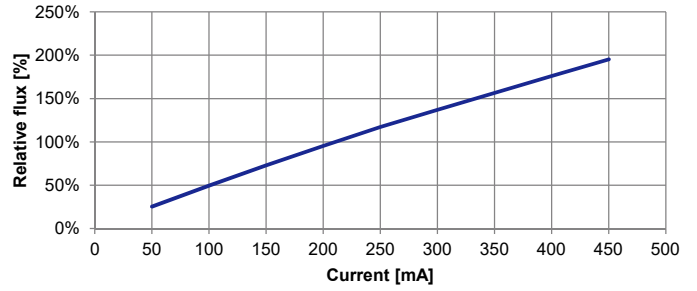
LinLED CRI 80

LinLED CRI 90

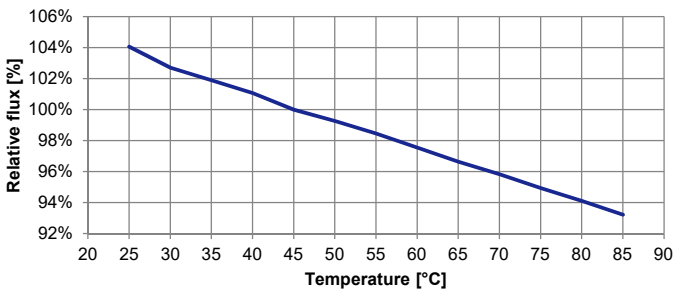
Flux vs current (@Tp)



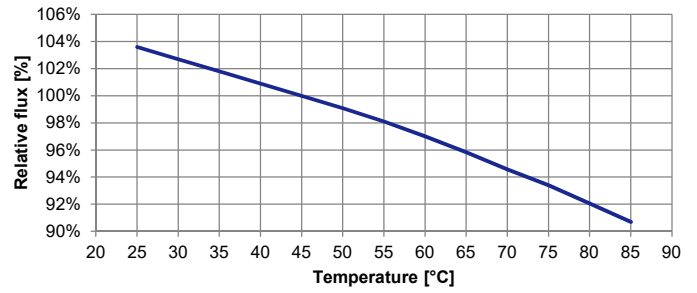
Flux vs current (@Tp)



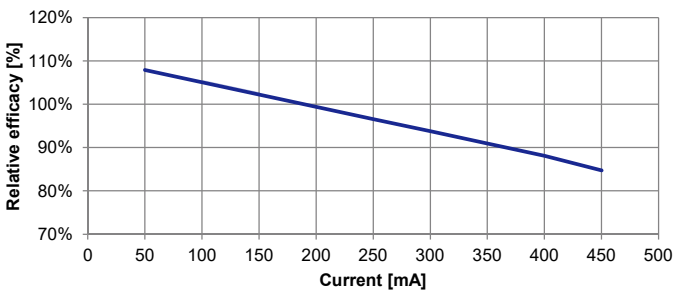
Flux vs temperature at Tc point (@ I nom)



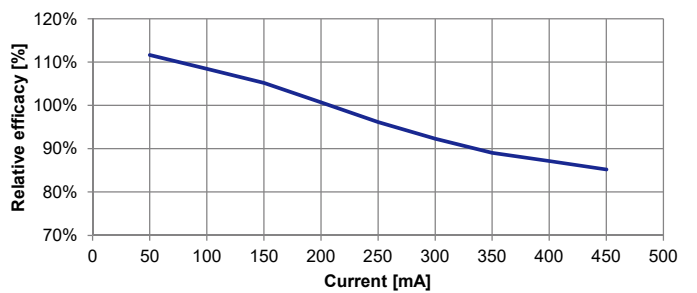
Flux vs temperature at Tc point (@ I nom)



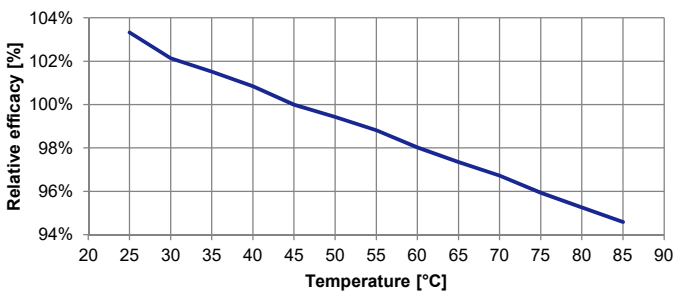
Efficacy vs current (@Tp)



Efficacy vs current (@Tp)



Efficacy vs temperature at Tc point (@ I nom)



Efficacy vs temperature at Tc point (@ I nom)

