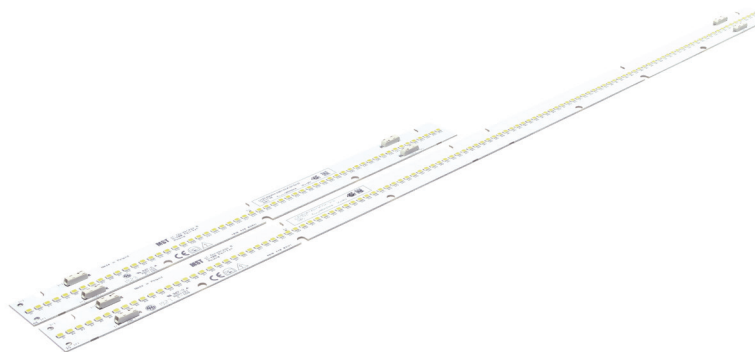


Linear LED modules 2000lm/1ft 4C

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 $\pm 10\%$
- 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 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 4C 42V Opt G2	101011732846	3000	280	1846	40	11	166	600
LinLED 560x24mm 4000lm 830 4C 42V Opt G2	101011733446		560	3691	40	22	166	1200
LinLED 280x24mm 2000lm 840 4C 42V Opt G2	101011732946	4000	280	1940	40	11	175	600
LinLED 560x24mm 4000lm 840 4C 42V Opt G2	101011733546		560	3880	40	22	175	1200

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 4C 42V Opt G2	101011770146	2700	330	1745	41	13	130	600
LinLED 560x24mm 4000lm 927 4C 42V Opt G2	101011770246		660	3490	41	27	130	1200
LinLED 280x24mm 2000lm 930 4C 42V Opt G2	101011740346	3000	330	1874	41	13	140	600
LinLED 560x24mm 4000lm 930 4C 42V Opt G2	101011740946		660	3748	41	27	140	1200
LinLED 280x24mm 2000lm 940 4C 42V Opt G2	101011740446	4000	330	2003	41	13	149	600
LinLED 560x24mm 4000lm 940 4C 42V Opt G2	101011741046		660	4007	41	27	149	1200

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 4C 42V Bsc G1	101011738246	3000	335	1926	40	13	144	600
LinLED 560x24mm 4000lm 830 4C 42V Bsc G1	101011738846		670	3852	40	27	144	1200
LinLED 280x24mm 2000lm 840 4C 42V Bsc G1	101011738346	4000	335	2025	40	13	151	600
LinLED 560x24mm 4000lm 840 4C 42V Bsc G1	101011738946		670	4049	40	27	151	1200

Linear LED modules 2000lm/1ft 4C

Temperatures

Specification item

T_p	45°C	Temperature related to the performance parameters of the LED modules
T_{p rated}	65°C	Maximum operating temperature to which the rated performance characteristics are declared
T_c	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

Lumen maintenance

LinLED CRI 80

Forward current	T _p 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	53,000
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

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

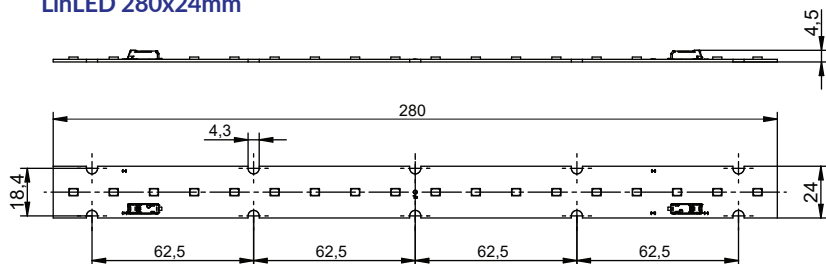
LinLED CRI 90

Forward current	T _p 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

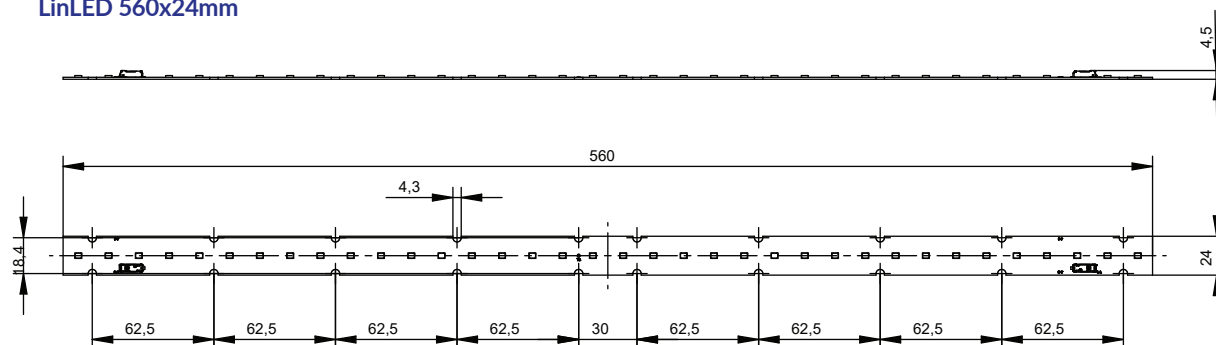
Linear LED modules 2000lm/1ft 4C

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

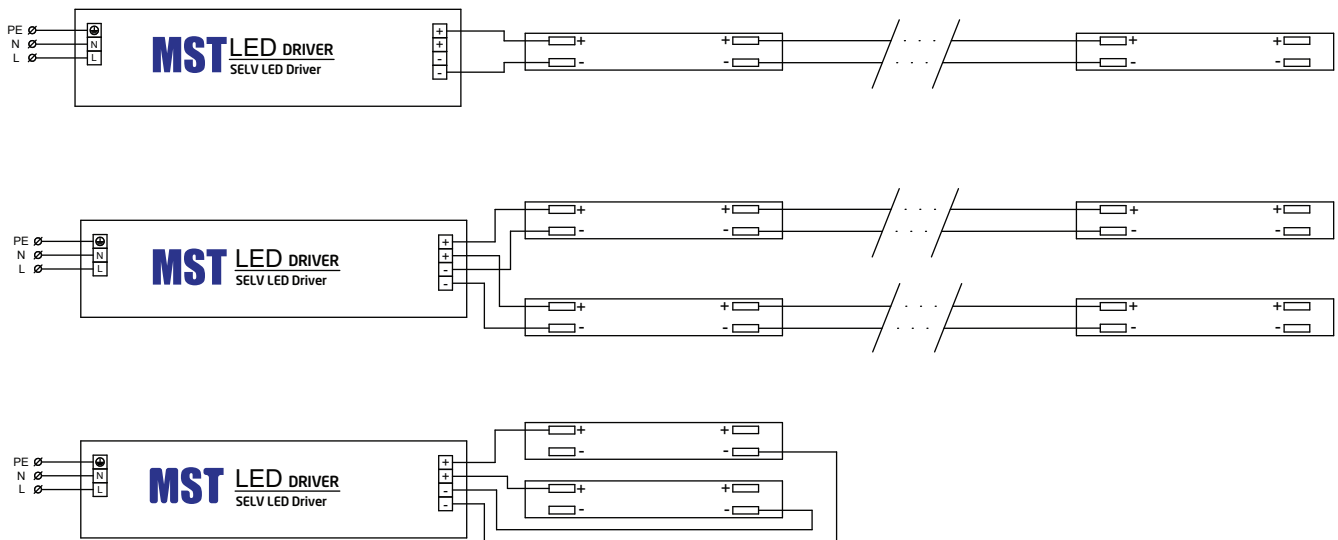
Linear LED modules 2000lm/1ft 4C

Connections

Wiring for parallel connection system (4C)

$$I_{LED module} = I_{driver}$$

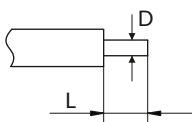
$$U_{driver} = U_{f LED module} * \text{Number of modules}$$



The maximum number of LED modules parallel connected is limited due to track resistance and must not exceed 6 of 1ft modules in one chain
Building second chain allow to connect more LED modules

Wiring

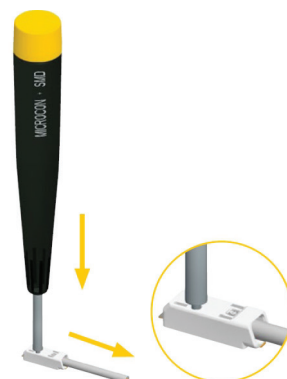
Wire cross section and strip length:



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

L - strip length	Min	Max
	8mm	9mm

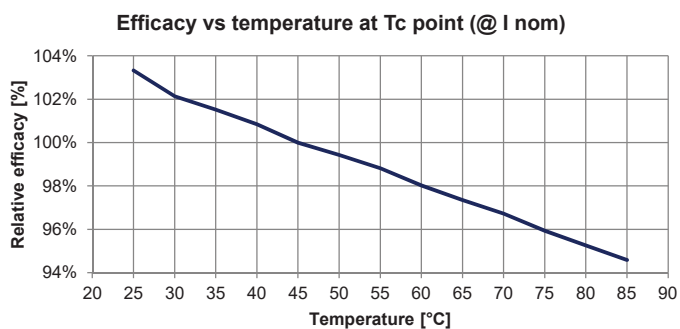
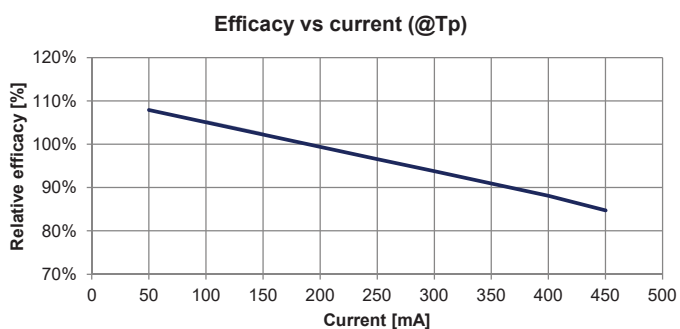
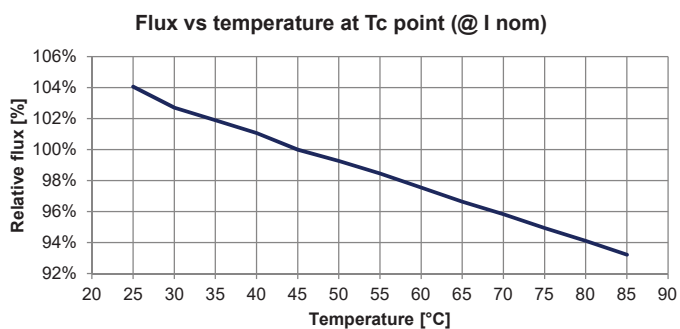
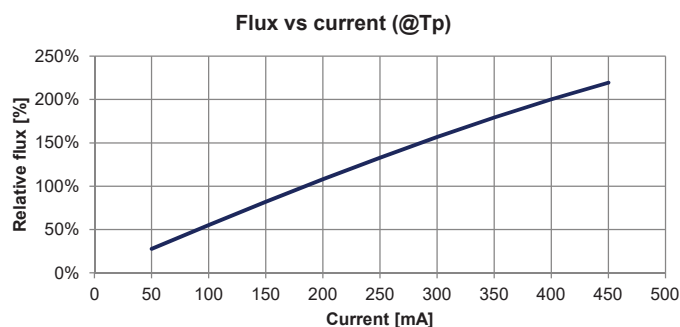
Opening for the release of wires from the top
with release pin Electroterminal art. 881 167 884:



Linear LED modules 2000lm/1ft 4C

Performance

LinLED CRI 80



LinLED CRI 90

