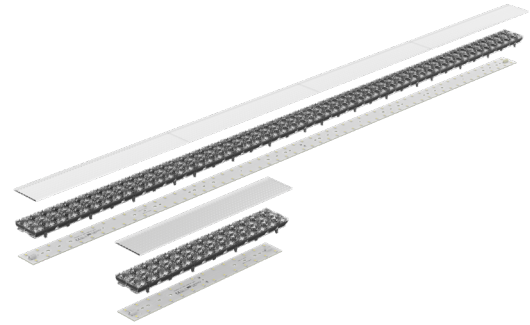


Linear LED modules 1000lm per 1ft DIANA-40

A linear solution for premium class indoor lighting. Optimized for LEDi's DIANA-40 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
- Other CCT and CRI on request



LinLED CRI 80 CE-30 G6

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ φ [lm]	Useful luminous flux ² [lm]	Voltage ¹ Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 277x30mm 1000lm 830 2C 21V DIANA-40 CE-30 G6	1010 147 70546	3000	265	976	1000	19	5,0	197	40	600	B
LinLED 1118x30mm 4000lm 830 2C 84V DIANA-40 CE-30 G6	1010 147 70646		265	3906	3999	75	20	197	40	600	B
LinLED 277x30mm 1000lm 840 2C 21V DIANA-40 CE-30 G6	1010 147 70746	4000	265	1042	1066	19	5,0	210	40	600	B
LinLED 1118x30mm 4000lm 840 2C 84V DIANA-40 CE-30 G6	1010 147 70846		265	4166	4266	75	20	210	40	600	B

LinLED CRI 90 CE-30 K G7

Product name	Ordering code	Colour temperature [K]	Current nominal If nom [mA]	Luminous flux ¹ φ [lm]	Useful luminous flux ² [lm]	Voltage ¹ Vf [V]	Power ¹ P [W]	Efficacy ¹ [lm/W]	Current minimum If min ³ [mA]	Current maximum If max [mA]	Energy Efficiency Class
LinLED 277x30mm 1000lm 930 2C 21V DIANA-40 CE-30 K G7	1010 147 70946	2700	275	1001	1028	19	5,2	194	40	600	C
LinLED 1118x30mm 4000lm 930 2C 84V DIANA-40 CE-30 K G7	1010 147 71046	6500	275	4004	4112	75	21	194	40	600	C
LinLED 277x30mm 1000lm 940 2C 21V DIANA-40 CE-30 K G7	1010 147 71146	3000	275	1026	1053	19	5,2	199	40	600	B
LinLED 1118x30mm 4000lm 940 2C 84V DIANA-40 CE-30 K G7	1010 147 71246	4000	275	4102	4213	75	21	199	40	600	B

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

Linear LED modules 1000lm per 1ft DIANA-40

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

Certificates & standards

Specification item	Compliant
ENEC	No
CE	Yes
RoHS	Yes
REACH	Yes
IP rating	No IP rating

Lumen maintenance

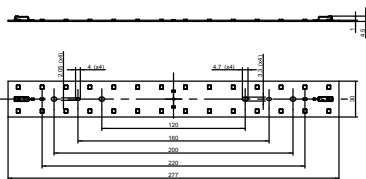
CE-30 K G7, CE-30 G6

Forward current	T _p temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	55°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	65°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	75°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	85°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
If max	45°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	55°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	65°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	75°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000
	85°C	>102 000	>102 000	>102 000	>102 000	>102 000	>102 000

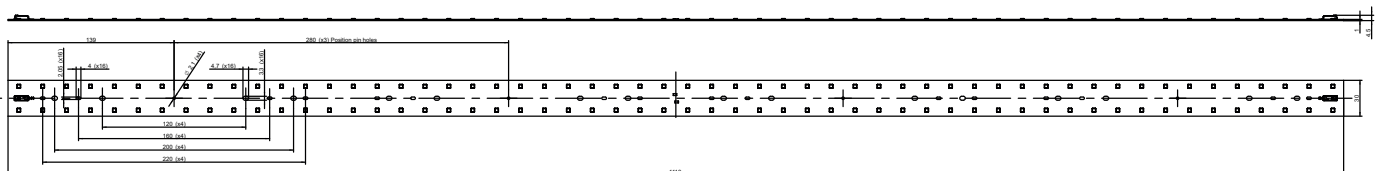
Calculated data based on LM80 LED data (17 000h)

Dimensions

LinLED 277x30mm



LinLED 1118x30mm



Linear LED modules 1000lm per 1ft DIANA-40

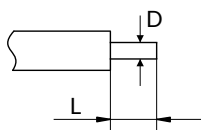
Mounting

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.

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:

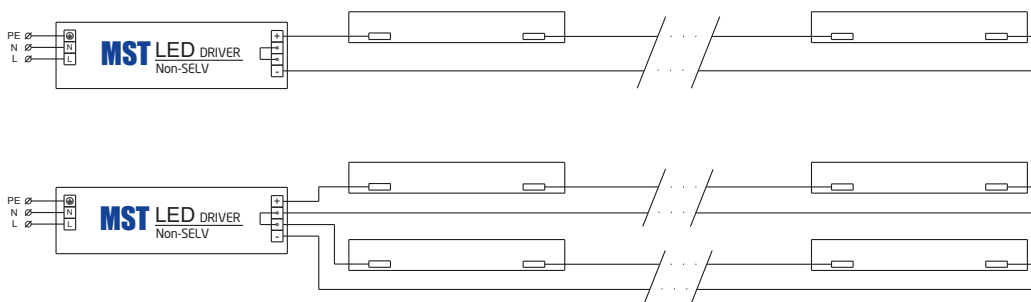


Connections

Max number of modules	Unit	Series	Parallel
LinLED 277x30mm	[pcs]	16	-
LinLED 1118x30mm	[pcs]	4	-

You can combine different lengths of LED modules so that the maximum length does not exceed 4472mm

Wiring for series connection system (2C)



Energy Label / EPREL database

To obtain Energy Label for this product visit <https://eprel.ec.europa.eu/> and enter model identifier

Model identifier consists of 10 digits XXXX XXX XXX. It is printed directly on the LED module or on product label. This is the number you can see in EPREL database.

Ordering code consist of 12 digits XXXX XXX XXX46. Additional last two digits means packaging of the product.

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Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
LinLED 277x30mm 1000lm 830 2C 21V DIANA-40 CE-30 G6	1010 147 70546	136	16320	300 x 266 x 83
LinLED 1118x30mm 4000lm 830 2C 84V DIANA-40 CE-30 G6	1010 147 70646	136	4080	1198 x 266 x 83
LinLED 277x30mm 1000lm 840 2C 21V DIANA-40 CE-30 G6	1010 147 70746	136	16320	300 x 266 x 83
LinLED 1118x30mm 4000lm 840 2C 84V DIANA-40 CE-30 G6	1010 147 70846	136	4080	1198 x 266 x 83
LinLED 277x30mm 1000lm 930 2C 21V DIANA-40 CE-30 K G7	1010 147 70946	136	16320	300 x 266 x 83
LinLED 1118x30mm 4000lm 930 2C 84V DIANA-40 CE-30 K G7	1010 147 71046	136	4080	1198 x 266 x 83
LinLED 277x30mm 1000lm 940 2C 21V DIANA-40 CE-30 K G7	1010 147 71146	136	16320	300 x 266 x 83
LinLED 1118x30mm 4000lm 940 2C 84V DIANA-40 CE-30 K G7	1010 147 71246	136	4080	1198 x 266 x 83