

## Linear LED modules 156x28mm DAISY 4x1

A linear solution for premium class office lighting. Optimized for LEDiL DAISY 4x1 optics.

### Product description

- Long life-time
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: 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 156x28mm

Product name	Ordering code	Colour temp. [K]	If nominal [mA]	Luminous flux @ If nom & Tp $\Phi$ [lm]	Voltage @ If nom & Tp Vf [V]	Power @ If nom & Tp P [W]	Efficiency @ If nom & Tp [lm/W]	Max. current If [mA]
LinLED 156x28mm 2x200lm 827-865 2x2C 12V Opt G1	101011746746	2700	110	193	12	1,3	151	150
		6500	110	209	12	1,3	163	150
LinLED 156x28mm 400lm 830 2C 12V Opt G1	101011746846	3000	220	397	12	2,6	155	300
LinLED 156x28mm 400lm 840 2C 12V Opt G1	101011746946	4000	220	418	12	2,6	163	300
LinLED 156x28mm 2x400lm 827-865 2x2C 12V Opt G1	101011749846	2700	220	386	12	2,6	151	300
		6500	220	418	12	2,6	163	300
LinLED 156x28mm 800lm 830 2C 12V Opt G1	101011749946	3000	440	794	12	5,1	155	600
LinLED 156x28mm 800lm 840 2C 12V Opt G1	101011750046	4000	440	835	12	5,1	163	600

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### Temperatures

#### Specification item

<b>T<sub>p</sub></b>	45°C	Temperature related to the performance parameters of the LED modules
<b>T<sub>p rated</sub></b>	65°C	Maximum operating temperature to which the rated performance characteristics are declared
<b>T<sub>c</sub></b>	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++
Working Voltage	[Vdc]	350
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	No
CE	Yes
RoHS	Yes
REACH	Yes
Zhaga	No
IP rating	No IP rating
Overheating protection	No

### Lumen maintenance

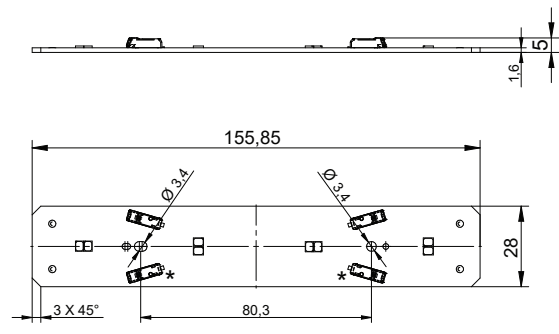
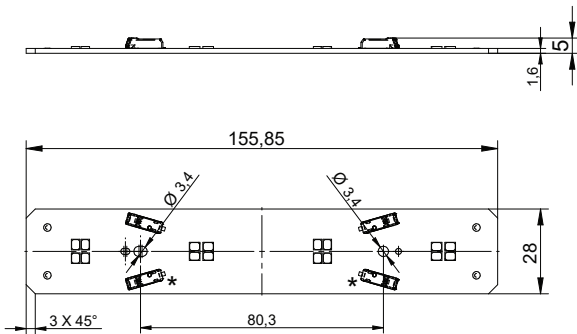
#### LinLED CRI 80

Forward current	T <sub>p</sub> temperature	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
<b>If nom</b>	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	50,000
<b>If max</b>	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)

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### Dimensions



12NC	Product name	Connectors (*)
1010 117 65446	LinLED 156x28mm 2x400lm 927-965 2x2C 12V Opt G1	Yes
1010 117 49846	LinLED 156x28mm 2x400lm 827-865 2x2C 12V Opt G1	Yes
1010 117 49946	LinLED 156x28mm 800lm 830 2C 12V Opt G1	No
1010 117 50046	LinLED 156x28mm 800lm 840 2C 12V Opt G1	No

12NC	Product name	Connectors (*)
1010 117 46746	LinLED 156x28mm 2x200lm 827-865 2x2C 12V Opt G1	Yes
1010 117 46846	LinLED 156x28mm 400lm 830 2C 12V Opt G1	No
1010 117 46946	LinLED 156x28mm 400lm 840 2C 12V Opt G1	No

### 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.

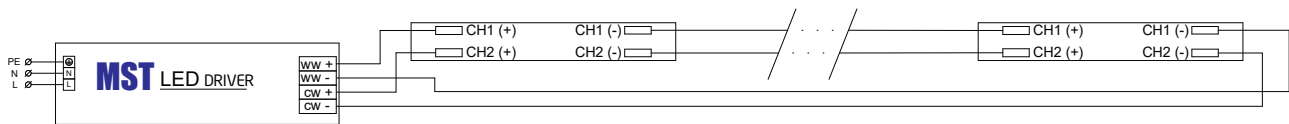
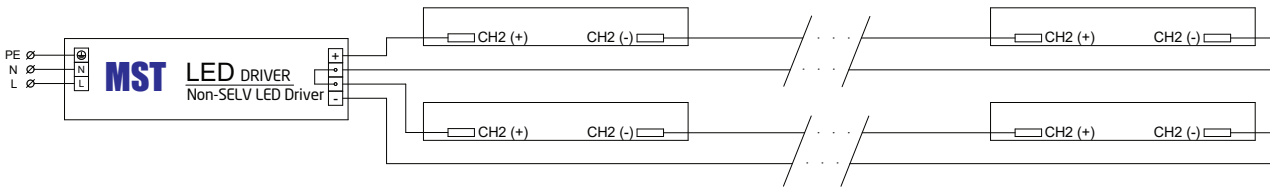
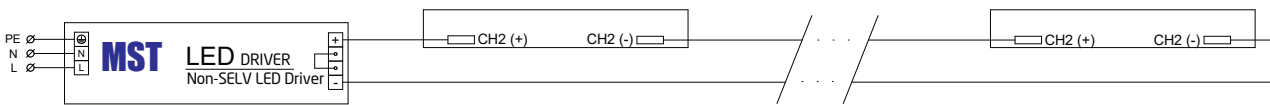
Max. torque for fixing: 0,5Nm

## Linear LED modules 156x28mm DAISY 4x1

### Connections

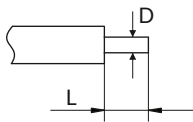
$$I_{LED\ module} = I_{driver}$$

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



### Wiring

Wire cross section and strip length:



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

	Min	Max
L - strip length	8mm	9mm

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

