

## Linear LED modules 3-Row

A linear solution for premium class office lighting. Optimized for LEDil FLORENCE 3R (IP) 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  $\pm 10\%$
- Available CCT from 2200K to 6500K and CRI 80, 90 and 95



### LinLED 280x55mm

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 280x55mm 1100lm 830 33V Opt G1	101011720046	3000	195	1068	31	6	177	450
LinLED 280x55mm 1100lm 840 33V Opt G1	101011720146	4000	195	1116	31	6	184	450
LinLED 280x55mm 2000lm 830 33V Opt G1	101011754846	3000	350	1890	31	11	172	1050
LinLED 280x55mm 2000lm 840 33V Opt G1	101011754946	4000	350	2001	31	11	181	1050

### LinLED 566x55mm

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 566x55mm 4000lm 830 3x22 33V Opt G1	101011773346	3000	700	3779	31	22	172	2100
LinLED 566x55mm 4000lm 840 3x22 33V Opt G1	101011773446	4000	700	4002	31	22	182	2100
LinLED 566x55mm 4000lm 830 3x22 66V Opt G1	101011773546	3000	350	3779	63	22	172	1050
LinLED 566x55mm 4000lm 840 3x22 66V Opt G1	101011773646	4000	350	4002	63	22	182	1050

## Linear LED modules 3-Row

### 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++
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	Yes
IP rating	No IP rating
Overheating protection	No

### Lumen maintenance

#### LinLED CRI 80

simulation based on LM80 LED data (9,000h)

Forward current	Tp temperature	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>54,000	>54,000	>54,000	>54,000	>54,000	>54,000
	55°C	>54,000	>54,000	>54,000	>54,000	>54,000	>54,000
	65°C	>54,000	>54,000	>54,000	>54,000	>54,000	52,000
If max	45°C	>54,000	>54,000	>54,000	>54,000	>54,000	50,000
	55°C	>54,000	>54,000	>54,000	>54,000	>54,000	45,000
	65°C	>54,000	>54,000	>54,000	>54,000	52,000	42,000

Luminous flux values limited to 6 times the total test duration (in hours) of measured data

only for LinLED 280x55mm 1100lm...

simulation based on LM80 LED data (12,000h)

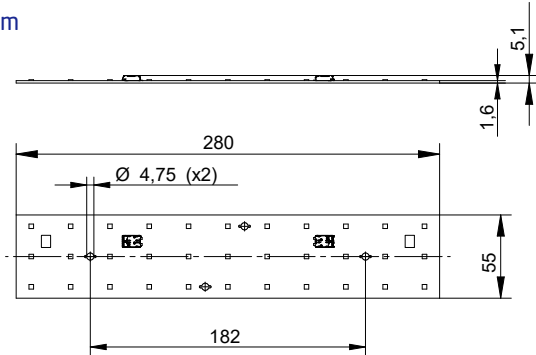
Forward current	Tp temperature	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>72,000	>72,000	>72,000	>72,000	44,000	37,000
	55°C	>72,000	>72,000	>72,000	>72,000	42,000	35,000
	65°C	>72,000	>72,000	>72,000	60,000	35,000	28,000
If max	45°C	>72,000	>72,000	>72,000	>72,000	42,000	35,000
	55°C	>72,000	>72,000	>72,000	>72,000	40,000	33,000
	65°C	>72,000	>72,000	>72,000	54,000	33,000	26,000

Luminous flux values limited to 6 times the total test duration (in hours) of measured data

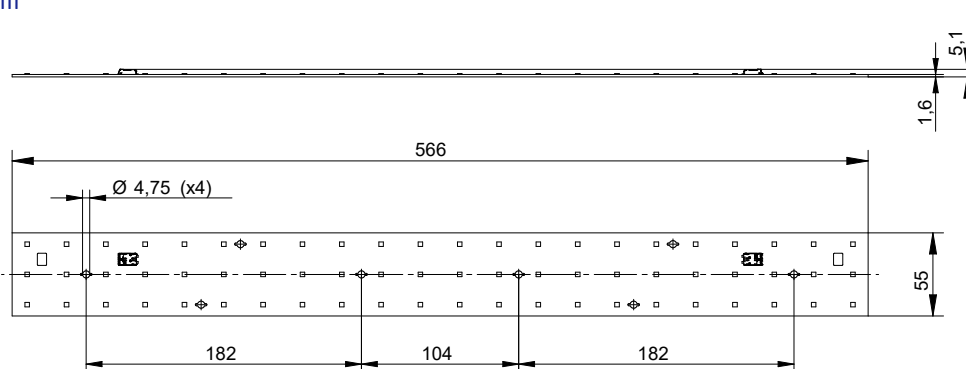
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### Dimensions

LinLED 280x55mm



LinLED 566x55mm



### 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

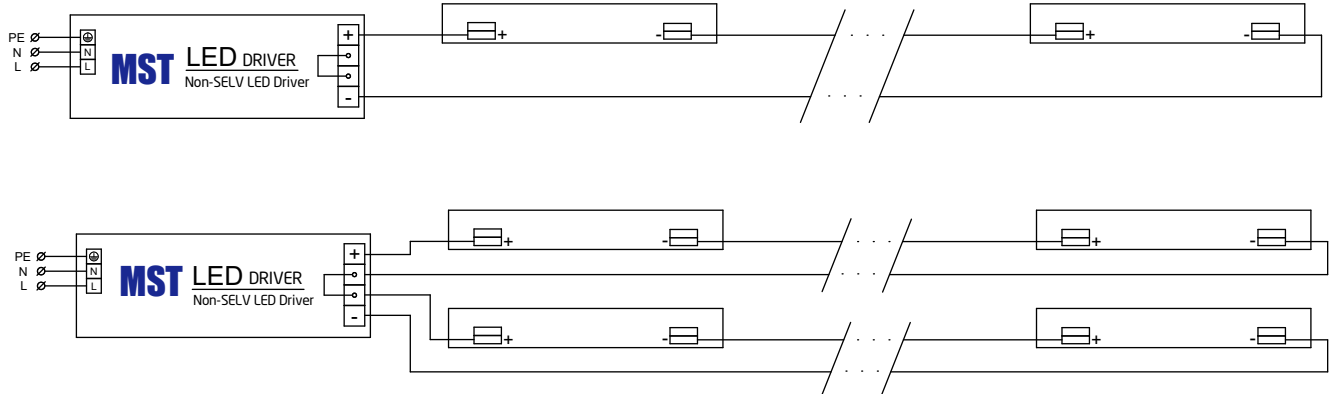
## Linear LED modules 3-Row

### Connections

#### Wiring for serial connection system

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

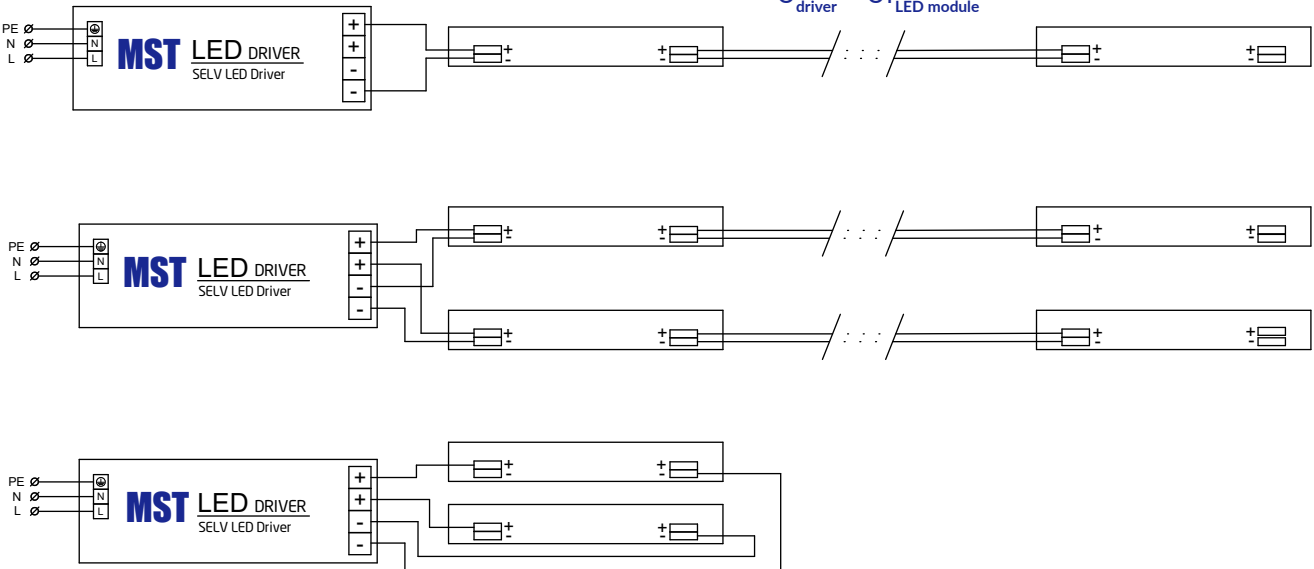
$$U_{\text{driver}} = U_{f_{\text{LED module}}} * \text{No\_of\_modules}$$



#### Wiring for parallel connection system

$$I_{\text{driver}} = I_{\text{LEDmodule}} * \text{No\_of\_modules}$$

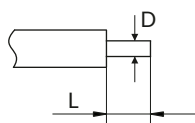
$$U_{\text{driver}} = U_{f_{\text{LED module}}}$$



## Linear LED modules 3-Row

### Wiring

Wire cross section and strip length:



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

