MST Your solutions

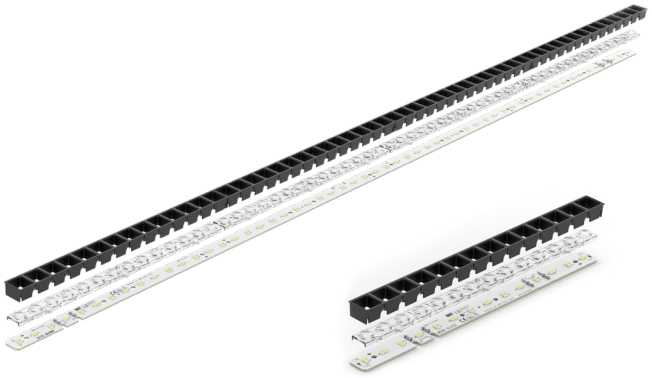
MST Sp. z o.o. Sp. k.
Chrobrego 8, 11-400 Kętrzyn, Poland
www.mst.pl

Linear LED modules 280x18mm & 1120x18mm DAISY-MINI 4C

A linear solution for premium class indoor lighting. Optimized for LEDiL's DAISY-MINI optics.

Product description

- Long life-time
- Built-in, constant current LED module
- Push-in terminals enabling easy connection
- Compliance and approval: CE
- 4C - four connections for parallel system, also recognized as a low voltage system - SELV
- Available CCT from 2700K to 6500K and CRI 80, 90



LinLED 4C CRI 80 G1

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 280x18mm 1100lm 830 4C 42V DAISY-MINI G1	1010 127 27846	3000	165	1107	1145	38	6.3	176	20	300	C
LinLED 1120x18mm 4400lm 830 4C 42V DAISY-MINI G1	1010 127 29846		660	4427	4580	38	25	176	80	1200	C
LinLED 280x18mm 1100lm 840 4C 42V DAISY-MINI G1	1010 127 27946	4000	165	1162	1203	38	6.3	184	20	300	C
LinLED 1120x18mm 4400lm 840 4C 42V DAISY-MINI G1	1010 127 29946		660	4650	4811	38	25	184	80	1200	C

LinLED 4C CRI 90 G1

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 280x18mm 1100lm 927 4C 42V DAISY-MINI G1	1010 127 26446	2700	190	1000	1037	41	7.8	128	20	300	E
LinLED 1120x18mm 4400lm 927 4C 42V DAISY-MINI G1	1010 127 30046		760	4000	4146	41	31	128	80	1200	E
LinLED 280x18mm 1100lm 930 4C 42V DAISY-MINI G1	1010 127 26546	3000	190	1074	1113	41	7.8	137	20	300	E
LinLED 1120x18mm 4400lm 930 4C 42V DAISY-MINI G1	1010 127 30146		760	4297	4453	41	31	137	80	1200	E
LinLED 280x18mm 1100lm 940 4C 42V DAISY-MINI G1	1010 127 26646	4000	190	1148	1190	41	7.8	147	20	300	D
LinLED 1120x18mm 4400lm 940 4C 42V DAISY-MINI G1	1010 127 30246		760	4593	4761	41	31	147	80	1200	D

[1]At nominal current and Tp
[2]At nominal current and 25°C
[3]It 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
Tp	[°C]	45
Tp rated	[°C]	65
Tc	[°C]	85
Relative humidity (non-condensing)	[%]	5 ... 85
Storage ambient temperature	[°C]	-25 ... +85
Storage relative humidity (non-condesing)	[%]	5 ... 85

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

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Technical data

Specification item	Unit	
Classification acc. to IEC 62031		built-in
Working voltage		60
Beam angle	[deg]	120
Initial color consistency	[SDCM]	3
Photobiological safety		RG1 unlimited

Color coordinates

According to CIE 1931

Specification item	CIEx	CIEy
2700K	0.4578	0.4101
3000K	0.4338	0.4030
4000K	0.3818	0.3797

Certificates & standards

Specification item	280x18	1120x18
ENEC	Yes	No
CE	Yes	Yes
RoHS	Yes	Yes
REACH	Yes	Yes
Zhaga	No	No
IP rating	No IP rating	No IP rating

Lumen maintenance

LinLED CRI 80

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>100 000	>100 000	>100 000	>100 000	68 000	57 000
	55°C	>100 000	>100 000	>100 000	>100 000	68 000	57 000
	65°C	>100 000	>100 000	>100 000	>100 000	66 000	56 000
	75°C	>100 000	>100 000	>100 000	>100 000	64 000	55 000
	85°C	>100 000	>100 000	>100 000	>100 000	63 000	54 000
If max	45°C	>100 000	>100 000	>100 000	>100 000	51 000	39 000
	55°C	>100 000	>100 000	>100 000	>100 000	51 000	39 000
	65°C	>100 000	>100 000	>100 000	>100 000	48 000	37 000
	75°C	>100 000	>100 000	>100 000	>100 000	45 000	35 000
	85°C	>100 000	>100 000	>100 000	69 000	43 000	34 000

calculated data based on LM80 LED data (@65mA 17000h / @160mA & 200mA 12000h)

LinLED CRI 90

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>100 000	>100 000	>100 000	95 000	54 000	52 000
	65°C	>100 000	>100 000	89 000	82 000	44 000	42 000
	85°C	>100 000	>100 000	71 000	66 000	35 000	31 000
If max	45°C	82 000	69 000	52 000	49 000	29 000	28 000
	65°C	73 000	63 000	47 000	44 000	25 000	24 000
	85°C	64 000	58 000	41 000	38 000	22 000	19 000

calculated data based on LM80 LED data 10 000h

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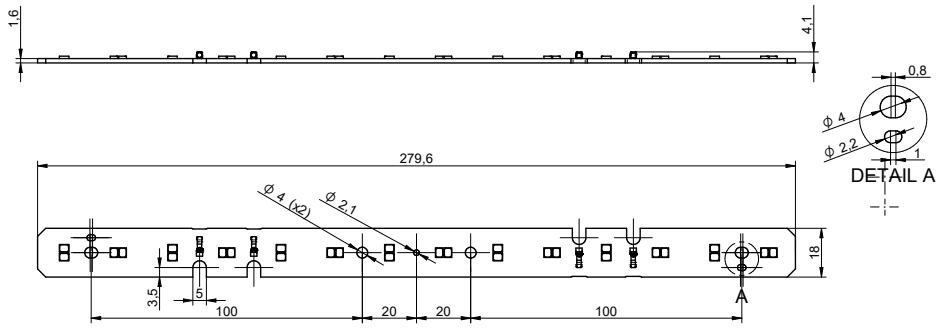
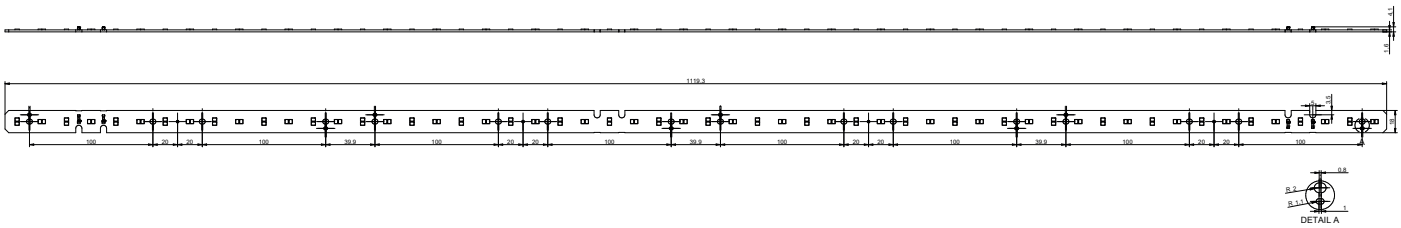
Dimensions

LinLED 280x18mm



LinLED 1120x18mm



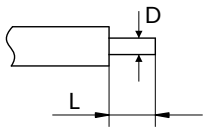
Mounting

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.

LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Wiring

Wire cross section and strip length:



	Min	Max
D - wire cross section (solid and flexible wires)	0.2mm²	0.5mm²
	AWG 24	AWG 20

	Min
L - strip length	5.5mm

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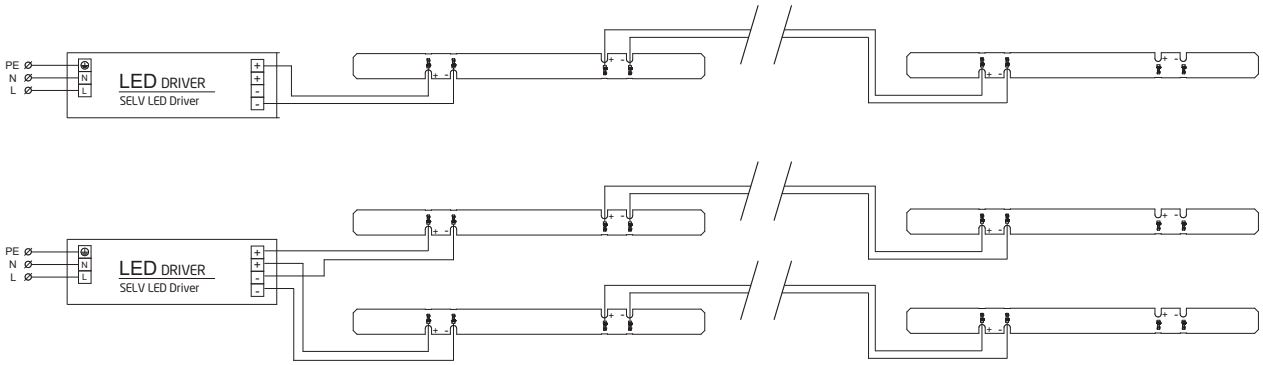
Connections

Max number of modules	Unit	Series	Parallel
LinLED 280x18mm...	[pcs]	-	6
LinLED 1120x18mm...	[pcs]	-	1

Wiring for parallel connection system (4C)



To prevent irregular luminous intensity in parallel connection use only LED modules from the same V-code group.
V-code (e.g. "A", "B", "AB") is printed on the LED module and box label. Naming is not adequate to efficacy or luminous flux.

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.

Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
LinLED 280x18mm 1100lm 830 4C 42V DAISY-MINI G1	1010 127 27846	224	26880	300 x 266 x 83
LinLED 1120x18mm 4400lm 830 4C 42V DAISY-MINI G1	1010 127 29846	120	3600	1138 x 236 x 58
LinLED 280x18mm 1100lm 840 4C 42V DAISY-MINI G1	1010 127 27946	224	26880	300 x 266 x 83
LinLED 1120x18mm 4400lm 840 4C 42V DAISY-MINI G1	1010 127 29946	120	3600	1138 x 236 x 58
LinLED 280x18mm 1100lm 927 4C 42V DAISY-MINI G1	1010 127 26446	224	26880	300 x 266 x 83
LinLED 1120x18mm 4400lm 927 4C 42V DAISY-MINI G1	1010 127 30046	120	3600	1138 x 236 x 58
LinLED 280x18mm 1100lm 930 4C 42V DAISY-MINI G1	1010 127 26546	224	26880	300 x 266 x 83
LinLED 1120x18mm 4400lm 930 4C 42V DAISY-MINI G1	1010 127 30146	120	3600	1138 x 236 x 58
LinLED 280x18mm 1100lm 940 4C 42V DAISY-MINI G1	1010 127 26646	224	26880	300 x 266 x 83
LinLED 1120x18mm 4400lm 940 4C 42V DAISY-MINI G1	1010 127 30246	120	3600	1138 x 236 x 58