MST Your solutions

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

Linear LED modules DAISY-7X1 & DAISY-28X1 4C

A linear solution for premium class indoor lighting. Optimized for LEDiL's DAISY-7X1 & DAISY-28X1 optics. Compatible with BRIANNA optics.

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE, ENEC
- 4C - four connectors for parallel system, also recognized as a low voltage system - SELV
- Other CCT and CRI on request

LinLED CRI 80 CJ G4

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 280x28mm 1100lm 830 4C 42V DAISY-7X1 CJ G4	1010 137 33446	3000	150	1072	1099	38	5.7	189	20	400	C
LinLED 560x28mm 2200lm 830 4C 42V DAISY-7X1 CJ G4	1010 137 33646		300	2143	2197	38	11	189	40	800	C
LinLED 1120x28mm 4400lm 830 4C 42V DAISY-28X1 CJ G4	1010 137 33846		600	4286	4395	38	23	189	80	1600	C
LinLED 280x28mm 1100lm 840 4C 42V DAISY-7X1 CJ G4	1010 137 33546	4000	150	1114	1143	38	5.7	196	20	400	B
LinLED 560x28mm 2200lm 840 4C 42V DAISY-7X1 CJ G4	1010 137 33746		300	2229	2285	38	11	196	40	800	B
LinLED 1120x28mm 4400lm 840 4C 42V DAISY-28X1 CJ G4	1010 137 33946		600	4458	4571	38	23	196	80	1600	B

LinLED CRI 90 EH1.1 G3

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 280x28mm 1100lm 927 4C 42V DAISY-7X1 EH1.1 G3	1010 117 89346	2700	175	1066	1098	41	7.2	148	20	300	D
LinLED 280x28mm 1100lm 930 4C 42V DAISY-7X1 EH1.1 G3	1010 117 89446	3000	175	1066	1098	41	7.2	148	20	300	D
LinLED 280x28mm 1100lm 940 4C 42V DAISY-7X1 EH1.1 G3	1010 117 81546	4000	175	1135	1169	41	7.2	158	20	300	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

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

Linear LED modules DAISY-7X1 & DAISY-28X1 4C

Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031		built-in
Working voltage	[Vdc]	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
6500K	0.3123	0.3282

Certificates & standards

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

Lumen maintenance

for CG G5, CJ G4, CN G3

Forward current	Tp 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	87 000	86 000
	75°C	>102 000	>102 000	>102 000	>102 000	74 000	73 000
	85°C	>102 000	>102 000	>102 000	>102 000	63 000	62 000
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	97 000	96 000
	65°C	>102 000	>102 000	>102 000	>102 000	82 000	81 000
	75°C	>102 000	>102 000	>102 000	>102 000	69 000	68 000
	85°C	>102 000	>102 000	>102 000	>102 000	59 000	58 000

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

for EH1.1 G3

Forward current	Tp temp.	L70 [h]		L80 [h]		L90 [h]	
		B50	B10	B50	B10	B50	B10
If nom	45°C	>72 000	>72 000	>72 000	>72 000	64 000	60 000
	55°C	>72 000	>72 000	>72 000	>72 000	63 000	59 000
	65°C	>72 000	>72 000	>72 000	>72 000	62 000	57 000
	75°C	>72 000	>72 000	>72 000	>72 000	60 000	56 000
	85°C	>72 000	>72 000	>72 000	>72 000	59 000	55 000
If max	45°C	>72 000	>72 000	67 000	62 000	30 000	29 000
	55°C	>72 000	>72 000	66 000	61 000	30 000	28 000
	65°C	>72 000	>72 000	65 000	60 000	29 000	27 000
	75°C	>72 000	>72 000	65 000	59 000	29 000	26 000
	85°C	>72 000	>72 000	64 000	58 000	28 000	26 000

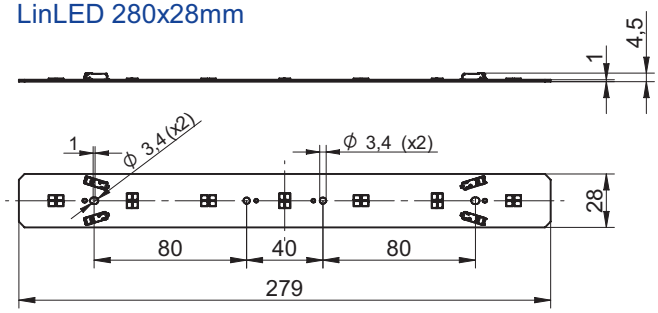
Calculated data based on LM80 LED data (12 000h)

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

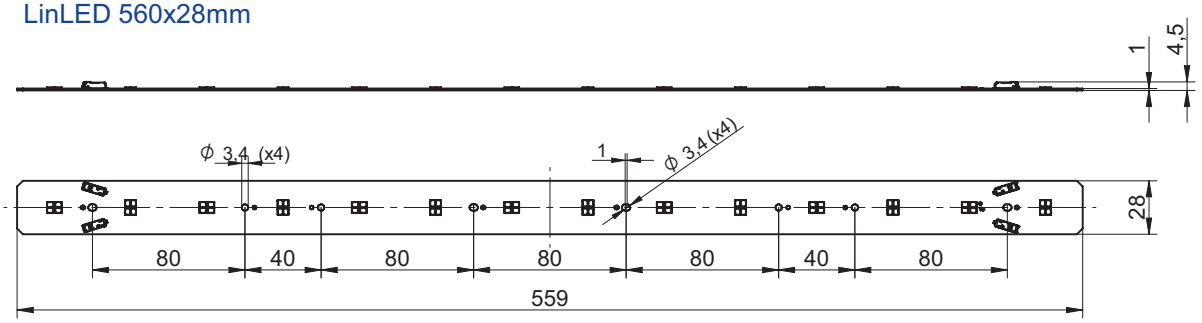
Linear LED modules DAISY-7X1 & DAISY-28X1 4C

Dimensions

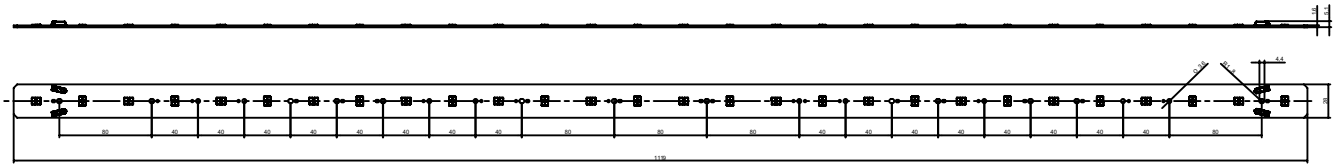
LinLED 280x28mm



LinLED 560x28mm



LinLED 1120x28mm



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.

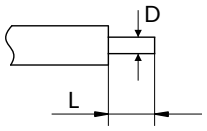
Protection against electric shock must be provided by the luminaire's enclosure.

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

Linear LED modules DAISY-7X1 & DAISY-28X1 4C

Wiring

Wire cross section and strip length:



D - wire cross section (solid and flexible wires)	Min	Max
	0.2mm²	0.75mm²
	AWG 24	AWG 18

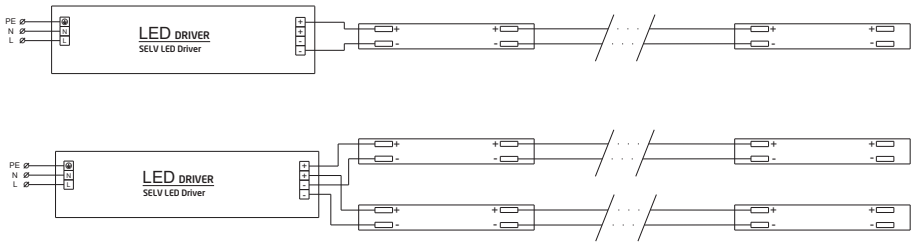
L - strip length	Min	Max
	8mm	9mm

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 280x28mm...	[pcs]	-	6
LinLED 560x28mm...	[pcs]	-	3
LinLED 1120x28mm...	[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.

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

Linear LED modules DAISY-7X1 & DAISY-28X1 4C

Ordering codes

Product name	Ordering code	Pieces per box	Pieces per pallet	Box dimensions [mm]
LinLED 280x28mm 1100lm 830 4C 42V DAISY-7X1 CJ G4	1010 137 33446	126	15120	300 x 266 x 83
LinLED 560x28mm 2200lm 830 4C 42V DAISY-7X1 CJ G4	1010 137 33646	126	7560	603 x 266 x 83
LinLED 1120x28mm 4400lm 830 4C 42V DAISY-28X1 CJ G4	1010 137 33846	126	3780	1198 x 266 x 83
LinLED 280x28mm 1100lm 840 4C 42V DAISY-7X1 CJ G4	1010 137 33546	126	15120	300 x 266 x 83
LinLED 560x28mm 2200lm 840 4C 42V DAISY-7X1 CJ G4	1010 137 33746	126	7560	603 x 266 x 83
LinLED 1120x28mm 4400lm 840 4C 42V DAISY-28X1 CJ G4	1010 137 33946	126	3780	1198 x 266 x 83
LinLED 280x28mm 1100lm 927 4C 42V DAISY-7X1 EH1.1 G3	1010 117 89346	126	15120	300 x 266 x 83
LinLED 280x28mm 1100lm 930 4C 42V DAISY-7X1 EH1.1 G3	1010 117 89446	126	15120	300 x 266 x 83
LinLED 280x28mm 1100lm 940 4C 42V DAISY-7X1 EH1.1 G3	1010 117 81546	126	15120	300 x 266 x 83