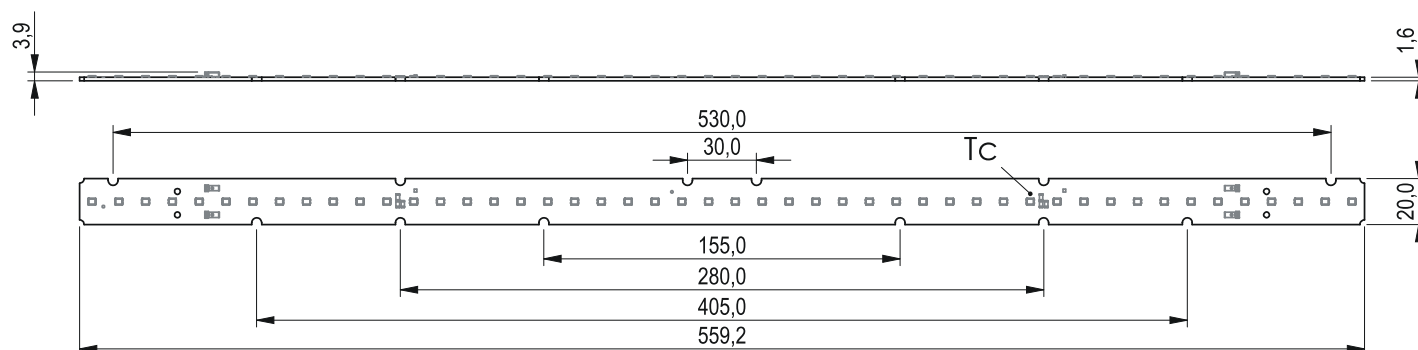


LIN 560x20mm CRI80/90 2200lm 240/480mA 2CR U5

Drawing



Technical data

Nominal forward current	240 / 480 mA
Maximum forward current	450 / 900 mA
Ambient temperature range	-25 ... +45 °C
tc	85 °C
tp rated	45 °C
Lumen maintenance L70B50	>72000h
Max. working voltage for insulation	400 V
Insulation test voltage	1800 V
Classification acc. to IEC 62031	Built-in
Risk group (IEC 62471)	RG1
Type of protection	IP00
Beam characteristic	120 °

Product details

- Built-in LED module
- Long life-time
- Ideal for linear luminaires
- Perfectly uniform light
- Dimmension according to L56W2
- 5 years guarantee

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Product code	Photometric code	Useful luminous flux at tp=25 °C	Expected luminous flux at tp rated	Forward current	Min. forward voltage at tp=85 °C	Max. forward voltage at tp=25 °C	Power consumption at tp=25 °C	Efficacy at tp=25 °C	Expected efficacy at tp rated	Energy classification
A5620L48-840-240-2CR-U5	840/359	2210 lm	2140 lm	240 mA	42,7 V	45,2 V	10,6 W	208 lm/W	203 lm/W	B
A5620L48-840-480-2CR-U5	840/359	2210 lm	2140 lm	480 mA	21,3 V	22,6 V	10,6 W	208 lm/W	203 lm/W	B
A5620L48-930-290-2CR-U5	930/359	2230 lm	2160 lm	290 mA	43,0 V	45,6 V	12,7 W	175 lm/W	171 lm/W	C
A5620L48-930-570-2CR-U5	930/359	2230 lm	2160 lm	570 mA	21,5 V	22,8 V	12,7 W	175 lm/W	171 lm/W	C
A5620L48-935-270-2CR-U5	935/359	2220 lm	2150 lm	270 mA	42,9 V	45,5 V	12,1 W	184 lm/W	180 lm/W	C
A5620L48-935-540-2CR-U5	935/359	2220 lm	2150 lm	540 mA	21,5 V	22,8 V	12,1 W	184 lm/W	180 lm/W	C
A5620L48-940-260-2CR-U5	940/359	2200 lm	2130 lm	260 mA	42,8 V	45,4 V	11,3 W	194 lm/W	190 lm/W	C
A5620L48-940-510-2CR-U5	940/359	2200 lm	2130 lm	510 mA	21,4 V	22,7 V	11,3 W	194 lm/W	190 lm/W	C
A5620L48-965-270-2CR-U5	965/359	2200 lm	2130 lm	270 mA	43,0 V	45,6 V	12,1 W	182 lm/W	178 lm/W	C
A5620L48-965-540-2CR-U5	965/359	2200 lm	2130 lm	540 mA	21,5 V	22,8 V	12,1 W	182 lm/W	178 lm/W	C

Temperature multiplier		
Temperature	Expected luminous flux	Efficacy
tp 25 °C	1	1
tp 45 °C	0,96	0,97
tp 65 °C	0,93	0,94
tp 85 °C	0,89	0,91
Nominal current multiplier		
Nominal current	Expected luminous flux	Efficacy
90 mA	0,38	1,03
120 mA	0,51	1,03
150 mA	0,63	1,02
180 mA	0,76	1,02
210 mA	0,88	1,02
240 mA	1,00	1,01
270 mA	1,12	1,01
300 mA	1,24	1,00
330 mA	1,36	1,00
360 mA	1,48	0,99
390 mA	1,59	0,99
420 mA	1,71	0,98
450 mA	1,82	0,98

Thermal details

Temperature has a great influence on the lifetime of LED products. Exceeding the permissible temperatures can significantly shorten the life of the module or even lead to its destruction. It is necessary to verify compliance with the maximum allowable temperature at the reference point under stable operating conditions. The maximum value should be determined based on the application-specific worst-case conditions. Both reference point temperatures (tc and tp) are measured at the same location.

Instalation



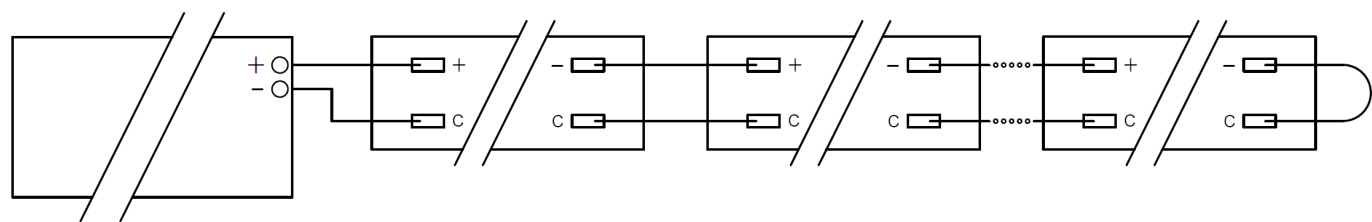
LIN 560x20mm CRI80/90 2200lm 240/480mA 2CR U5

The module are not protected against overvoltages, overcurrents,overloads or short-circuit currents. Wrong polarity can damage the module. The module must be powered by a SELV or non-SELV constant current LED driver. Module can be mounted diectly on earthed metal parts of luminaire only when max working voltage for insulation is higher than max. output voltage of LED driver (also against earth). Otherwise additional insulation between LED module and heat sink is required. At voltages > 60 V an additional protection against direct touch (test finger) to the light emitting side of the module has to be guaranteed. This is typically achieved by means of a non removable tight distributor over the module or by a suitable luminaire construction.

Risk of sulfurization

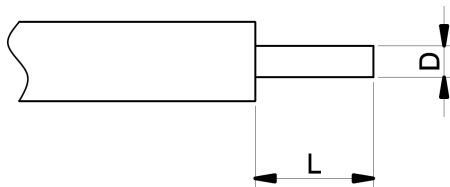
The LED uses a silver-plated lead frame and its surface color may change to black (or dark colored) when it is exposed to sulfur (S),chlorine (Cl) or other halogen compound. Sulfurization of lead frame may cause intensity degradation, change of chromaticity coordinates and, in extreme cases, open circuit. It requires caution. Due to possible sulfurization of lead frame, the LED Modules should not be usedand stored together with oxidizing substances made of materials such as rubber, plain paper, lead solder cream, etc.

Wiring example



Wiring type and cross section

The wiring can be in stranded wires or solid with a cross section of 0.2 to 0.75mm².



D - wire cross section	Min	Max
	0,2mm²	0,5mm²
L - strip lenght	Min	Max
	7,5mm	9,5mm

Photometric code

1 digit	2+3 digit	4 digit	5 digit	6 digit
CRI	Colour temperature in Kelvin x 100	MacAdam initial	Mac Adam after 25 % of the lifetime (max. 6000 h)	Luminous flux after 25% of the lifetime (max. 6000 h)
7 70-79				7 ≥ 70
8 80-89				8 ≥ 80
9 ≥90				9 ≥ 90

