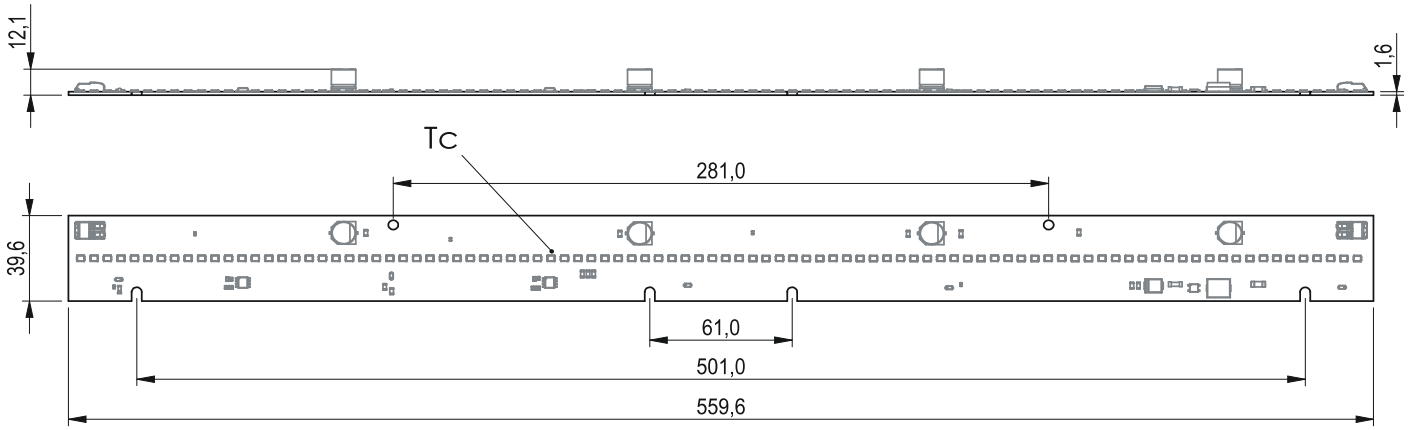
# LinAC 560x40 mm CRI 80/90 2200 lm 13 W 2C V5/U5

## Drawing




### Technical specifications

| | |
|---|---|
| Nominal voltage | 230 V |
| Power factor | >0,99 |
| Ambient temperature range | -25 … +45˚C |
| tc | 85˚C |
| tp rated | 55˚C |
| Lumen maintenance L70B50 | >102000h |
| Insulation | Basic |
| Insulation test voltage | 1500 V |
| Classification acc. to IEC 62031 | Built-in |
| Risk group (IEC 62471) | RG1 |
| Type of protection | IP00 |
| Beam characteristic | 120 ° |
| Surge protection L-N | 2 kV |
| SVM | <0,4 |
| $P_{st}$ LM | <1 |

### Product details

- For home use
- Driver on board
- Reduced flicker
- Compact slim design
- Non dimmable
- Dimmension according to L56W4

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| Product code | Photometric code | Useful luminous flux at tp=25 °C | Expected luminous flux at tp rated | Power consumption | Eficacy at tp=25 °C | Expected efficacy at tp rated | Energy classification |
|---|---|---|---|---|---|---|---|
| J5640L96-830-230V14-2C-V5 | 830/359 | 2200 lm | 2170 lm | 14,6 W | 151,0 lm/W | 149,0 lm/W | D |
| J5640L96-840-230V14-2C-V5 | 840/359 | 2220 lm | 2190 lm | 14,3 W | 155,0 lm/W | 153,0 lm/W | D |
| J5640L96-840-230V13-2C-U5 | 840/359 | 2210 lm | 2170 lm | 13,0 W | 170,0 lm/W | 167,0 lm/W | C |
| J5640L96-930-230V15-2C-U5 | 930/359 | 2230 lm | 2200 lm | 15,5 W | 144,0 lm/W | 143,0 lm/W | D |
| J5640L96-940-230V14-2C-U5 | 940/359 | 2200 lm | 2170 lm | 14,4 W | 153,0 lm/W | 151,0 lm/W | D |

## 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

The LED modules are designed for direct mains operation (230 V AC).Installation must be carried out under observation country specific relevant safety regulations and standards. The module is suitable for luminaires of protection class I, grounding is mandatory to comply with safety standards. In case of applications in luminaires of protection class II the safety regulations acc. to luminaire safety standards must be observed. 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 light distributor over the module or by a suitable luminaire construction.

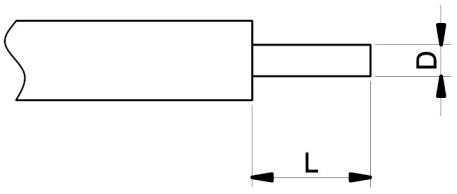
## Risk of sulfurization

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.

## Dimming

Dimmable with phase cutting leading- and trailing-edge dimmer. Due to the used electronic parts on the module not all available phase-cutting dimmers are compatible. Minimum dimmer load has to be observed. The compatibility of the dimmer and the modules has to be confirmed prior to installation to avoide flickering.

## Wiring




| | | |
|---|---|---|
| D – wire cross section | Min | Max |
| | 0,2mm² | 0,75mm² |
| L – strip lenght | Min | Max |
| | 7,0mm | 9,0mm |

## Photometric code

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| 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 |