# ASTARES linear K-Series

## LED modules in linear shape

PRELIMINARY DATASHEET

| | |
|---|---|
| Industry | ●●●○○ |
| Office & Commercial | ●●●●● |
| Outdoor | ○○○○○ |
| Shop | ●●○○○ |


LED Components

LED Modules

### Product information

- Slim LED modules for use in linear and flat luminaires
- Simple electrical connection via plug terminals with push buttons
- ADS wiring possible
- Module mounting via screw fastening
- Colour rendering CRI > 80 for use in all standard applications
- Very low tolerance in colour consistency
- Very high efficiency of up to 162 lm/W
- LED modules suitable for operation in SELV and non-SELV applications
- Matrix topology of LED arrangement for avoidance of dark zones with failure of individual LEDs
- In compliance with Zhaga specification Book 7

### Technical data

| | |
|---|---|
| **Photometrical data** | |
| Module efficiancy up to | 162 lm/W |
| Colour chromaticity coordinates 3000K | x = 0,428; y = 0,396 |
| Colour chromaticity coordinates 4000K | x = 0,379; y = 0,374 |
| Colour consistency (initial SDCM) | 3 |
| Colour consistency (after 50.000h) | 4 |
| Light distribution | lambertian / 120° (FWHM) |
| Tolerances of Luminuous flux | equals ±7,5% @ tp=65°C |
| Photo biological safety | risk class 1 |
| **Electrical data** | |
| Operation | constant current |
| Nominal operating current | 350 mA |
| Max. admissible current | 450 mA |
| Max. string voltage for series connection | 250 VDC |
| **Assembly information** | |
| Methode of fixing | Push-to-Fix Mounting element (BJB) |
| Type of connector | Push- In connector with release option |
| Wiring | Cross section 0.2 - 0.75mm² Stripping length 7 mm |
| **Operating temperature** | |
| Performance temperature | tp max = 65°C |
| Max. temperature | tc max = 75°C |
| Temperature range | -20°C ... 45°C |
| **Life time** | |
| Typical life time (L80, B50) | > 60,000 h @ tp max |

### Conformity

EN 62031
EN 62471
EN 61547
EN 55015
IEC 62717

### Designations

**BAG electronics GmbH**

Kleinbahnstrasse 27 ● 59759 Arnsberg / Germany ● info@BAGelectronics.com ● Phone +49 2932 9000-9800 ● Fax +49 2932 9000-9796

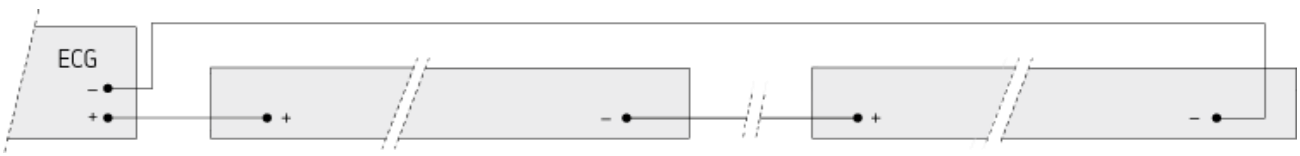
## Operating data

PRELIMINARY DATASHEET

| Designation | Material No. | Typ. Luminous flux | CCT | CRI | Photo-metric Code | Nom. operation current | Typ. operation voltage | Typ. power | Typ. efficiancy |
|---|---|---|---|---|---|---|---|---|---|
| LMC-AS/K-250-830-01/L56W2 | 10131966 | 2375 lm | 3000 K | 82 | 830/349 | 350 mA | 47,5 V | 16,6 W | 143 lm/W |
| | | 2050 lm | | | | 300 mA | 46,5 V | 14,0 W | 150 lm/W |
| | | 1750 lm | | | | 250 mA | 45,5 V | 11,4 W | 155 lm/W |
| LMC-AS/K-250-840-01/L56W2 | 10131967 | 2500 lm | 4000 K | 84 | 840/349 | 350 mA | 47,5 V | 16,6 W | 150 lm/W |
| | | 2150 lm | | | | 300 mA | 46,5 V | 14,0 W | 156 lm/W |
| | | 1850 lm | | | | 250 mA | 45,5 V | 11,4 W | 162 lm/W |
| LMC-AS/K-110-830-01/L28W2 | 10131968 | 1200 lm | 3000 K | 82 | 830/349 | 350 mA | 23,8 V | 8,3 W | 143 lm/W |
| | | 1025 lm | | | | 300 mA | 23,2 V | 7,0 W | 150 lm/W |
| | | 900 lm | | | | 250 mA | 22,7 V | 5,7 W | 155 lm/W |
| LMC-AS/K-110-840-01/L28W2 | 10131969 | 1250 lm | 4000 K | 84 | 840/349 | 350 mA | 23,8 V | 8,3 W | 150 lm/W |
| | | 1075 lm | | | | 300 mA | 23,2 V | 7,0 W | 156 lm/W |
| | | 925 lm | | | | 250 mA | 22,7 V | 5,7 W | 162 lm/W |
| LMC-AS/K-060-830-01/L14W2 | 10131970 | 600 lm | 3000 K | 82 | 830/349 | 350 mA | 11,9 V | 4,2 W | 143 lm/W |
| | | 500 lm | | | | 300 mA | 11,7 V | 3,5 W | 150 lm/W |
| | | 450 lm | | | | 250 mA | 11,4 V | 2,9 W | 155 lm/W |
| LMC-AS/K-060-840-01/L14W2 | 10131971 | 625 lm | 4000 K | 84 | 840/349 | 350 mA | 11,9 V | 4,2 W | 150 lm/W |
| | | 550 lm | | | | 300 mA | 11,7 V | 3,5 W | 156 lm/W |
| | | 475 lm | | | | 250 mA | 11,4 V | 2,9 W | 162 lm/W |

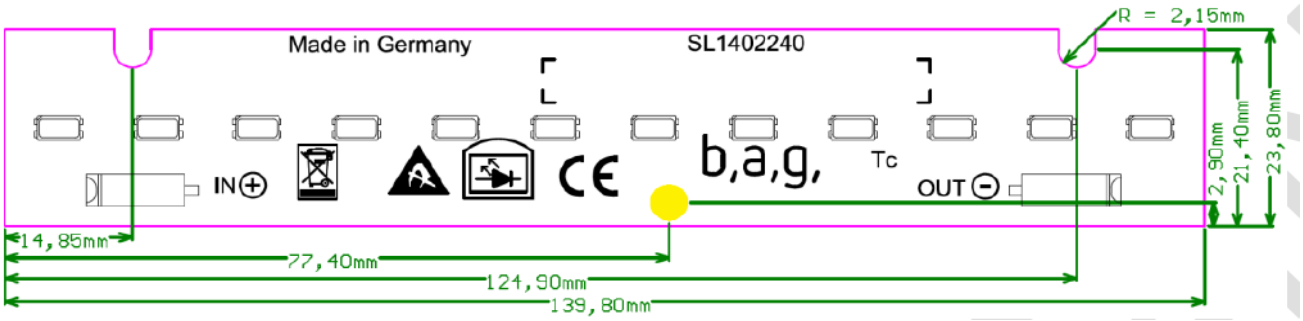
All operating data are refering to nominal operation at tc / tp = 65°C

## Wiring diagrams

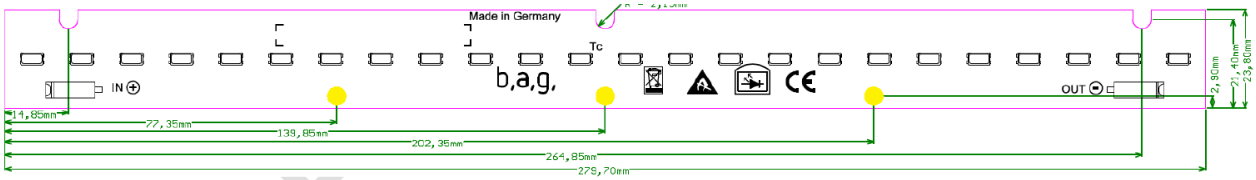


## Dimensions

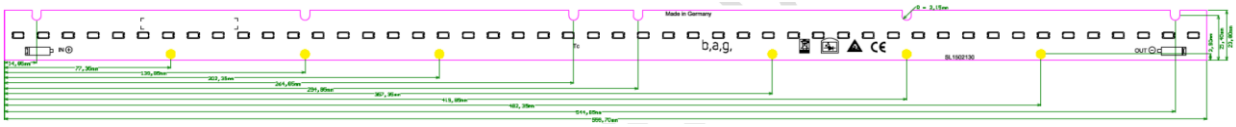
### LMC-…/L14W2: 140 mm




### LMC-…/L28W2: 280 mm




### LMC-…/L56W2: 560 mm





## Application hints

In case of any handling of the modules precautions against mechanical stress and electrostatic discharge (ESD) have to be considered.

System design have to fullfill all safety standards related to electrical supply and installation conditions.

## Accessories

Push-2-Fix Mounting elements

Please contact BJB for further information