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# PRODUCT DATASHEET

## PIN 20 300 ° 1.8 W/2700 K G4

LED PIN 12 V | Low-voltage 12 V LED lamps with retrofit pin base



### Areas of application

- Decorative applications
- Atmospheric accent lighting throughout the home
- Outdoor use in suitable outdoor luminaires only

### Product benefits

- Variable use at Direct Current and Alternating Current
- Good all-around light emission
- Ideal for decorative and free-burning applications
- Long lifetime of up to 15,000 h
- Three year guarantee

### Product features

- Compatible with many common conventional and electronic control gears (see also compatibility list)
- LED alternative to low voltage halogen lamps
- Base: G4, GY6.35

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TECHNICAL DATA

Electrical data

|                                          |          |
|------------------------------------------|----------|
| Nominal wattage                          | 1.8 W    |
| Construction wattage                     | 1.80 W   |
| Nominal voltage                          | 12 V     |
| Claimed equiv. conventional lamp power   | 20 W     |
| Nominal current                          | 230 mA   |
| Type of current                          | AC/DC    |
| Inrush current                           | 17.7 A   |
| Operating frequency                      | 50/60 Hz |
| Mains frequency                          | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 33       |
| Max. lamp no. on circuit break. 16 A (B) | 42       |
| Total harmonic distortion                | < 120 %  |
| Power factor λ                           | > 0.50   |

Photometrical data

|                                         |                     |
|-----------------------------------------|---------------------|
| Luminous flux                           | 200 lm              |
| Nominal useful luminous flux 90°        | 200 lm              |
| Luminous efficacy                       | 111 lm/W            |
| Lumen main.fact.at end of nom.life time | 0.70                |
| Light color (designation)               | Warm White          |
| Color temperature                       | 2700 K              |
| Color rendering index Ra                | ≥80                 |
| Light color                             | 827                 |
| Standard deviation of color matching    | ≤6 sdc <sub>m</sub> |
| Rated LLMF at 6,000 h                   | 0.80                |
| Flickering metric (Pst LM)              | 1.0                 |
| Stroboscope effect metric (SVM)         | 0.4                 |

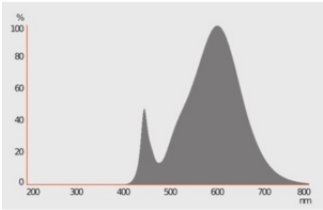
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Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 300 °    |
| Warm-up time (60 %)                | ˆ 0.50 s |
| Starting time                      | < 0.5 s  |
| Rated beam angle (half peak value) | 320.00 ° |

Dimensions & Weight

|                  |          |
|------------------|----------|
| Overall length   | 36.00 mm |
| Diameter         | 13,0 mm  |
| Maximum diameter | 13 mm    |
| Product weight   | 3.00 g   |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 77 °C        |

Lifespan

|                                     |         |
|-------------------------------------|---------|
| Lifespan                            | 15000 h |
| Number of switching cycles          | 100000  |
| Lumen maintenance at end of serv    | 0.70    |
| Rated lamp survival factor at 6,000 | ≥ 0.90  |

Additional product data

|                             |        |
|-----------------------------|--------|
| Base (standard designation) | G4     |
| Mercury content             | 0.0 mg |
| Mercury-free                | Yes    |
| Design / version            | Clear  |

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|                |                                                                                                                                                                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product remark | production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

Certificates & Standards

|                                              |                |
|----------------------------------------------|----------------|
| Energy efficiency class                      | F 1)           |
| Energy consumption                           | 2.00 kWh/1000h |
| Type of protection                           | IP20           |
| Standards                                    | CE / EAC       |
| Photobiological safety group acc. to EN62778 | RG1            |

1) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDPIN20 CL 1,8 |
|-----------------|-----------------|

LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

Energy labelling regulation data acc EU 2019/2015

|                                                     |              |
|-----------------------------------------------------|--------------|
| Lighting technology used                            | LED          |
| Non-directional or directional                      | NDLS         |
| Mains or non-mains                                  | NMLS         |
| Light source cap-type (or other electric interface) | G4           |
| Connected light source (CLS)                        | No           |
| Color-tuneable light source                         | No           |
| Envelope                                            | No           |
| High luminance light source                         | No           |
| Anti-glare shield                                   | No           |
| Correlated colour temperature type                  | SINGLE_VALUE |
| Standby power                                       | 0.00         |
| Networked standby power for CLS                     | 0 W          |
| Claim of equivalent power                           | Yes          |
| Length                                              | 36.00 mm     |

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|                                                      |                 |
|------------------------------------------------------|-----------------|
| Height                                               | 13,0 mm         |
| Width                                                | 13,0 mm         |
| Chromaticity coordinate x                            | 0.458           |
| Chromaticity coordinate y                            | 0.410           |
| R9 Colour rendering index                            | 0.00            |
| Beam angle correspondence                            | SPHERE_360      |
| Survival factor                                      | 0.90            |
| Displacement factor                                  | 0.5             |
| LED light source replaces a fluorescent light source | No              |
| EPREL ID                                             | 1403248,522871  |
| Model number                                         | AC32123,AC24747 |

Safety advice

- To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

DOWNLOAD DATA

| Documents and certificates                                                          |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
|  | Declarations Of Conformity CE |
| Photometric and lighting design files                                               |                               |
|  | Spectral power distribution   |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075431966 | Folding box<br>1             | 20 mm x 49 mm x 95 mm                | 10.00 g      | 0.09 dm³  |
| 4058075622487 | Shipping box<br>6            | 109 mm x 79 mm x 104 mm              | 92.00 g      | 0.90 dm³  |
| 4058075431973 | Shipping box<br>10           | 119 mm x 109 mm x 104 mm             | 135.00 g     | 1.35 dm³  |
| 4058075431980 | Shipping box<br>80           | 256 mm x 236 mm x 237 mm             | 1468.00 g    | 14.32 dm³ |
| 4058075622494 | Shipping box<br>48           | 236 mm x 176 mm x 237 mm             | 1048.00 g    | 9.84 dm³  |

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The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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### References / Links

- For Guarantee see [www.osram-lamps.com/guarantee](http://www.osram-lamps.com/guarantee)
  - For further products and actual information concerning LED lamps see [www.osram-lamps.com/led-lamps](http://www.osram-lamps.com/led-lamps)
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### DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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