

# PRODUCT DATASHEET

## PIN 10 320 ° 0.9 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 applications only in suitable luminaires

### 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	0.9 W
Construction wattage	0.90 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	10 W
Nominal current	130 mA
Type of current	AC/DC
Inrush current	12.3 A
Max. lamp no. on circuit break. 10 A (B)	48
Max. lamp no. on circuit break. 16 A (B)	61
Total harmonic distortion	< 150 %
Power factor $\lambda$	> 0.50

**Photometrical data**

Luminous flux	100 lm
Nominal useful luminous flux 90°	100 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	$\geq 80$
Light color	827
Standard deviation of color matching	$\leq 6$ sdc
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



**Light technical data**

Beam angle	320 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	320.00 °

**Dimensions & Weight**

Overall length	33.00 mm
Diameter	12 mm
Maximum diameter	12 mm
Product weight	2.6 g

**Temperatures & operating conditions**

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	85 °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



### Capabilities

Dimmable	No
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### Certificates & Standards

Energy efficiency class	F <sup>1)</sup>
Energy consumption	1.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC
Photobiological safety group acc. to EN62778	RG1

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

### Country-specific categorizations

Order reference	LEDPIN10 CL 0,9
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### LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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### 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-tunable 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	0.0
Claim of equivalent power	Yes
Length	33.00 mm
Height	12 mm
Width	12 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.410



R9 Colour rendering index	0.00
Beam angle	SPHERE_360
Survival factor	0.90
LED light source replaces a fluorescent light source	No

### Safety advice

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

### DOWNLOAD DATA

DOWNLOAD DATA	
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Declarations of conformity

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075431935	Folding box 1	20 mm x 49 mm x 95 mm	9.60 g	0.09 dm <sup>3</sup>
4058075449770	Folding box 2	20 mm x 49 mm x 95 mm	12.20 g	0.09 dm <sup>3</sup>
4058075622821	Shipping box 12	109 mm x 79 mm x 104 mm	96.00 g	0.90 dm <sup>3</sup>
4058075431942	Shipping box 10	119 mm x 109 mm x 104 mm	129.00 g	1.35 dm <sup>3</sup>
4058075449787	Shipping box 20	119 mm x 109 mm x 104 mm	153.00 g	1.35 dm <sup>3</sup>
4058075622517	Shipping box 6	109 mm x 79 mm x 104 mm	89.60 g	0.90 dm <sup>3</sup>
4058075622838	Shipping box 96	236 mm x 176 mm x 237 mm	1090.00 g	9.84 dm <sup>3</sup>
4058075431959	Shipping box 80	256 mm x 236 mm x 237 mm	1420.00 g	14.32 dm <sup>3</sup>
4058075449794	Shipping box 160	256 mm x 236 mm x 237 mm	1612.00 g	14.32 dm <sup>3</sup>
4058075622524	Shipping box 48	236 mm x 176 mm x 237 mm	1029.00 g	9.84 dm <sup>3</sup>

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.

## 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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