

Compact fluorescent lamps integrated



Definition

Ambiance Pro is a full range of covered electronic energy-saving lamps, offering a lightweight, long-life alternative to incandescent lamps.

Description

The Ambiance Pro electronic energy-saving lamps are available in 6 W, 9 W, 12 W, 16 W, 20 W and 23 W with E27/B22 cap. All types are available in colour temperature 2700 K (warm white). Start is almost instant (< 0.3 s) and flicker-free.

The influence of mains voltage variation (10 %) on the lamps luminous flux is negligible ($\pm 5\%$). The minimum mains voltage required for the lamp to ignite and for the lamp to function after ignition is 180 V (AC).

Light output after 3 minutes is 80 %. Average lamp life is 12 000 hours. Lumen maintenance is 80 % at 5000 hours and 70 % at 12 000 hours.

Energy consumption is approx. 80 % less than the incandescent lamps they replace. Ambiance Pro lamps are suitable for DC applications due to their low power consumption. For optimum performance the lamps must be operated at 300-340 V DC.

The lamps will operate at lower voltages but with reduced performance. The minimum voltage required for the lamp to ignite is 250 V DC and the maximum allowed operating voltage is 355 V DC.

The lamps are energy class A in the European energy-efficiency labelling.

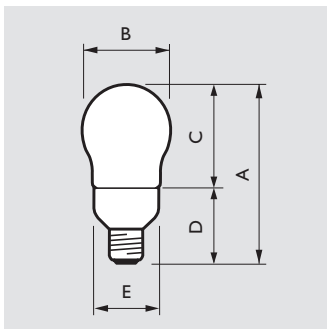
Applications

The Ambiance Pro electronic energy-saving lamps are specified for professional use. They are suitable for replacing incandescent lamps in most professional luminaires. Due to their significant energy- and cost-saving benefits, these lamps are especially suitable for professional applications such as in restaurants, hotels and offices where lighting is required for longer periods of time, or in places where lamp replacement is difficult. In outdoor applications, enclosed fixtures are to be used to protect the electronics in the base against moisture.

The recommended range of ambient temperatures is -15 °C to +55 °C for base-up, and +0 °C to +65 °C for base-down applications. Due to the use of amalgam technology, light output is almost constant (> 80 %) over the recommended range of ambient temperatures. Average switch life is over 6 000 switches.

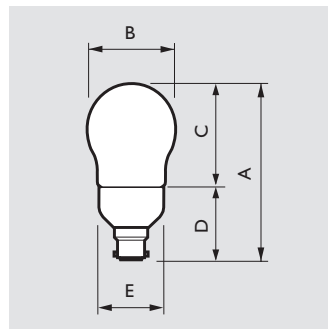
Philips Ambiance Pro lamps are not suitable for applications in combination with electronic switches, photocells, timing devices or dusk-to-dawn sensors unless a 3-point switch is used (lamp is fully switched off from mains voltage), or for dimming.

Philips PL E-D PRO lamps have the ENEC mark granted by an independent test house. They comply with IEC 968 (safety requirements), IEC 969 (performance requirements), and CE regulations (e.g. EN 55015 radio disturbance).



Dimensions in mm

Type	A	B	C	D	E
	max.	max.	max.	max.	max.
Cap/base E27					
Amb Pro 6W	137.1	65.8	76	61.1	48.1
Amb Pro 9W	137.1	65.8	76	61.1	48.1
Amb Pro 12W	137.1	65.8	76	61.1	48.1
Amb Pro 16W	153.6	70.8	92.5	61.1	48.1
Amb Pro 20W	173.6	75.8	112.5	61.1	48.1
Amb Pro 23W	173.6	75.8	112.5	61.1	48.1



Type	A	B	C	D	E
	max.	max.	max.	max.	max.
Cap/base B22					
Amb Pro 6W	135.4	65.8	76	59.4	48.1
Amb Pro 9W	135.4	65.8	76	59.4	48.1
Amb Pro 12W	135.4	65.8	76	59.4	48.1
Amb Pro 16W	151.9	70.8	92.5	59.4	48.1
Amb Pro 20W	171.9	75.8	112.5	59.4	48.1
Amb Pro 23W	171.9	75.8	112.5	59.4	48.1

