



## SL\*LAMP

### Energy-saving replacement for the filament lamp

Compact fluorescent lamp with integral control gear and BC or ES cap; directly replaces conventional filament lamps with considerable energy savings and greatly extended service.

The SL lamp successfully combines three recent major technical developments of the Philips research laboratories:-

#### The miniaturisation of the fluorescent lamp

The conventional fluorescent lamp has been folded and miniaturised, to produce a package small enough to fit into an envelope of a size comparable to that of a conventional filament lamp.

#### The integration of lamp and control gear

The fluorescent ballast and starter have been miniaturised, and fit into the base of the lamp.

#### New phosphor technology

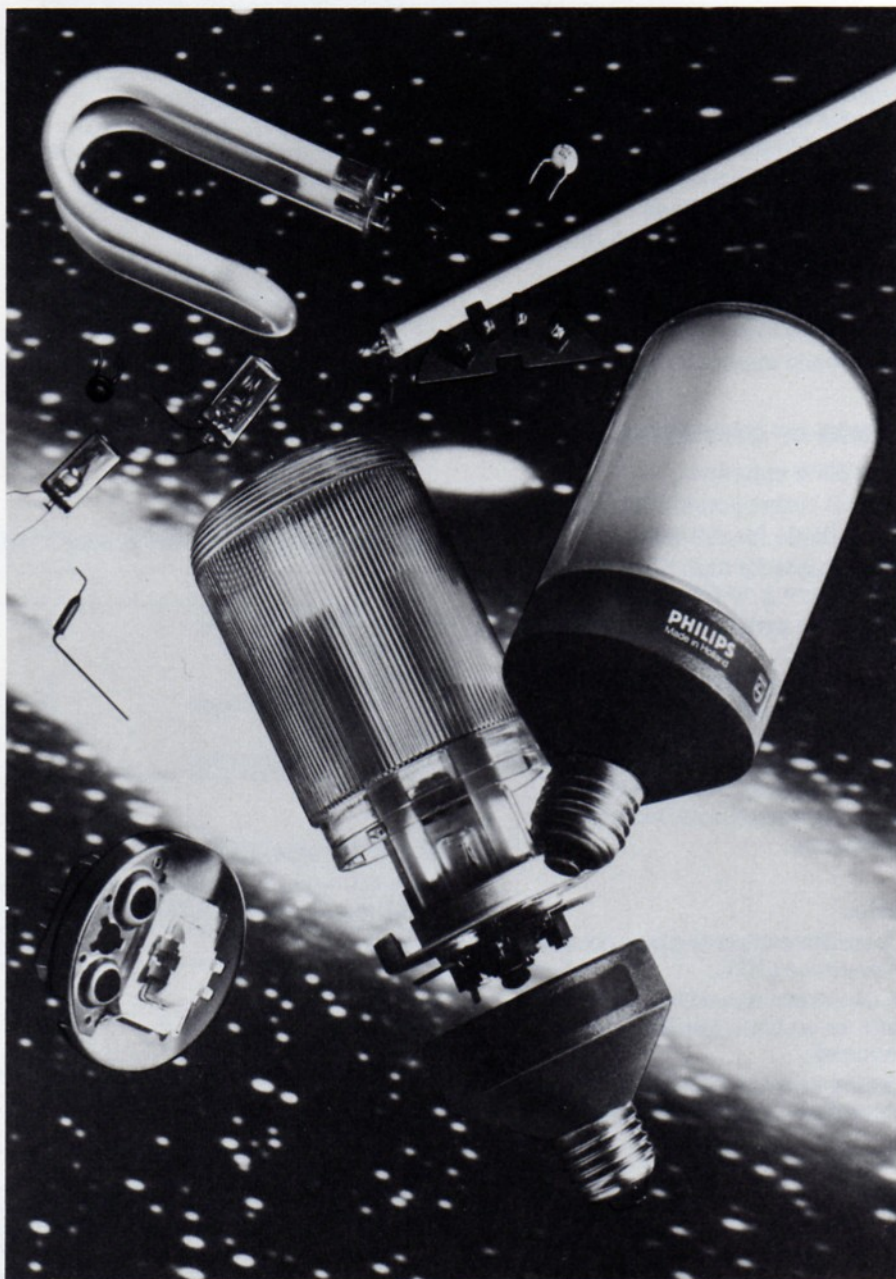
The SL lamp uses phosphors developed for the Philips Colour 80 Series of fluorescent lamps. These phosphors have narrow bands of light output at specific wavelengths. The wavelengths have been carefully chosen for a high colour rendering index, and the concentration of energy in the narrow bands gives a higher light output than conventional 'high-efficiency' phosphors.

By combining these three developments, Philips have produced a new lamp which:-

- Uses only a quarter the power of comparable filament lamps.
- Lasts about five times as long.
- Gives high-quality light.
- Runs directly from the mains supply.
- Fits existing BC or ES lampholders.

#### FEATURES

- Uses approximately one quarter of the power of a comparable GLS lamp.
- Average life of 5000 hours is five times the standard filament lamp life; lamp changing costs are greatly reduced, particularly where lighting



fittings are inaccessible.

- Integral control gear and standard lamp caps provide direct replacement, without modification, in suitable lighting fittings.

- Lamp starts and restarts within 2 seconds.

- Philips special phosphor combines high efficacy with good colour rendering.



LIGHTING

Europe's No1 Lightmaker

PHILIPS

## RANGE

SL9 (replaces 40W GLS)  
SL18 (replaces 75W GLS)  
SL13 (replaces 60W GLS)  
SL25 (replaces 100W GLS)

Opal or prismatic finish, with Bayonet Cap (B22) or Edison Screw cap (E27).

SL 18 replaces:

- 75W GLS lamp; light output (prismatic) is comparable.
- 60W GLS lamp; light output (prismatic and opal) is greater.

SL 18 Prismatic is currently available.

## APPLICATIONS

Replaces GLS lamps where the benefits of energy saving and long life are of importance:

- Hotel foyers, bedrooms and corridors
- Commercial buildings
- Inaccessible lighting fittings on landings, high ceilings, etc.
- Amenity lighting fittings
- Public buildings, schools, etc.
- Domestic applications

## RANGE OF OPERATION

240V 50Hz supplies.

Normal indoor conditions (see note).

Not suitable for dimming.

Not suitable for high frequency supplies; e.g. in emergency lighting.

Operating position:- Any (adequately supported).

Temperature of air inside luminaire surrounding bulb must not exceed 75°C. Small luminaires and luminaires for lamps with internal reflectors may not be suitable. Thermal blankets must be spread away from the luminaires.

### Note:

Operation and starting may not be reliable below minus 10°C.

In cap-down operation, light output falls as ambient temperature is reduced.

Lamps operated outdoors, at users' discretion, must be enclosed.

## Lighting fittings for SL lamps

The SL lamp can be used as a direct replacement for GLS lamps in most lighting fittings, and will provide immediate savings in energy costs without modification. However, since the lamp has larger dimensions and is heavier than a filament lamp of equivalent light output, the following checks should be made on the lighting fitting before installing the lamp:

1. Check that adequate space is available inside the lighting fitting to accommodate the lamp.
2. Check that the lighting fitting and wiring are able to support a lamp of the weight given below. Old or frayed wiring must be replaced.
3. Replace the lampholder if it is unsuitable or in poor condition. Lampholders for BC lamps should be all-metal (earthed), or of insulating material with a metal or ceramic insert.

**Note:** Edison Screw lampholders provide better lamp location and support, and should therefore be used in new or refurbishing schemes. End support may be needed for the lamp if it is mounted in BC holders either horizontally or vertically cap down.

## DIMENSIONS, WEIGHTS & ELECTRICAL DATA

		SL9	SL13	SL18	SL25
Nom. overall length (ES)	mm	148	158	168	178
Nom. overall diameter	mm	72	72	72	72
Weight (approx)	g	430	460	560	710
Nom. power (incl. ballast)	W	9	13	18	25
Nom. current	mA	110	115	180	250
Start/restart time (approx)	s	2	2	2	2

## GLS (filament) LUMENS

The lumen output of GLS lamps of roughly equivalent light output is tabled below for comparison. At 1000 hours the output is approx 90% of initial.

SL lamp	GLS equivalent	Lumens
SL9	40W	420
SL13	60W	710
SL18	75W	940
SL25	100W	1360

## ORDERING DATA

Catalogue No.	Description	Packing
SL 18 BC-O	18W lamp, Bayonet Cap, opal envelope	Lamps in fully-descriptive individual cartons are packed in boxes of six
SL 18 ES-O	18W lamp, Edison Screw, opal envelope	
SL 18 BC-P	18W lamp, Bayonet Cap, prismatic envelope	
SL 18 ES-P	18W lamp, Edison Screw, prismatic envelope	

For other ratings replace 18 by appropriate rating 9-13 or 25

Made in Holland

For additional technical information, apply to Marwood Electrical Company Limited