

POCKET TYPE VOLTAGE INDICATOR

As a useful help for everyone who has to deal with electricity, Philips can offer a small, handy voltage indicator, which can, moreover, be used as a screw-driver. If the tested point is "live", the built-in neon indicator will give a red glow. Suitable for voltages of 90 - 380 V a.c. and d.c. Catalogue number 7800/15. Dimensions: diameter 14.5 mm, overall length 120 mm.



- 1) High brightness types; as for the lamps GL 40, 50, 41 and 42 this applies only to the high-voltage versions.
- 2) Lamps with lens-end bulb.
- 3) Recommended series resistor 56, 27, 82 and 47 kΩ ¼ W resp.
- 4) Recommended series resistor 56, 27, 120, 120, 27, 68, 82, 47, 150 and 100 kΩ ¼ W resp.
- 5) Recommended series resistor 68, 82 and 47 kΩ ¼ W resp. for 220 V; 82, 100 and 56 kΩ ¼ W resp. for 240 V.

NEON GLOW LAMPS

The extensive range of Philips Neon Glow Lamps provides a large selection for inclusion in most types of signal units and fittings. They can be ordered in a great variety of dimensions and voltages, with or without base, with or without series resistor.

Glow lamps with built-in or attached resistor can be connected directly to the mains. Glow lamps supplied without resistor must have a resistor connected in series.

Continuous development has made high-brightness types available throughout the entire range; they can be supplied in green as well.

Applications

All kinds of electric appliances such as irons, grills, domestic heaters, boilers, frying pans, electric ovens, washing machines, dish washers, hair dryers, coffee percolators, freezers, refrigerators, blankets, etc.

Features

- small dimensions
- suitable for mains tension
- high brightness
- hardly affected by mains fluctuations
- shock and vibration-proof to a large extent
- minimum heat development
- negligible current consumption
- long service life

Glow lamps with built-in resistor

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GL40D 1)	110/130 a.c. and d.c.	1	EX10	10	26	1
GL40N 1)	220/250 a.c. 380 a.c.	1.5 0.6	BA9s	10	26	1
GL50D 1) 2)	110/130 a.c. and d.c.	1	EX10	10	28	2
GL50N 1) 2)	220/250 a.c. 380 a.c.	1.5 0.6	BA9s	10	28	2
GL41M 1) 2)	110/130 a.c. and d.c.	2	E14	14	30	3
GL41W 1) 2)	220/250 a.c. 380 a.c.	2.5 1	B15d	14	30	3
GL42M 1) 2)	110/130 a.c. and d.c.	2	E14	15.5	54	4
GL42W 1) 2)	220/250 a.c. 380 a.c.	3.5 2	B15d	15.5	54	4
GL45E	110/130 a.c. and d.c.	4	E27	28.5	62	5
GL45B	220/250 a.c.	7	B22	28.5	58	5

Glow lamps without resistor in the base 3)

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GL14D	110/130 a.c. and d.c.	1	EX10	10	26	1
GL14N		1.5	BA9s	10	26	1
GL1M 2)		2	E14	14	30	3
GL1W 2)	220/250 a.c.	2.5	B15d	14	30	3
GL12D 1)		1.5	EX10	10	26	1
GL12N 1)		1.5	BA9s	10	26	1
GL4M 1) 2)	220/250 a.c.	2.5	E14	14	30	3
GL4W 1) 2)		2.5	B15d	14	30	3

Baseless glow lamps without resistor 4)

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GL14 2)	110/130 a.c. and d.c.	1	—	9	18.5	6
GL1 2)		2	—	11.5	24	7
GL6		0.5	—	6	16	8
GL8		0.5	—	6	19	9
GL 9 1)	110/130 a.c. 220/250 a.c.	2	—	6	19	9
GL12 1) 2)	220/250 a.c.	1.5	—	9	18.5	6
GL4 1) 2)		2.5	—	11.5	24	7
GL5 1)		1	—	6	12.5	8
GL7 1)		1.5	—	6	16	8

Baseless glow lamps with attached resistor

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GR14	110/130 a.c.	1	—	9	18.5	12
GR1		2	—	11.5	24	13
GR6		0.5	—	6	16	10
GR8		0.5	—	6	19	11
GR9 1)	110/130 a.c. 220/250 a.c.	2	—	6	19	11
GR12 1)	220/250 a.c.	1.5	—	9	18.5	12
GR4 1)		2.5	—	11.5	24	13
GR5 1)		1	—	6	12.5	10
GR7 1)		1.5	—	6	16	10

Green fluorescent glow lamps with built-in resistor

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GR60D 1)	220 a.c.	1.5	EX10	10	26	14
GR66M 1)	240 a.c.	2	E14	14	30	15
GR72M 1)		4	E14	16	54	16

Baseless green fluorescent glow lamps without resistor 5)

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GL52 1)	220 a.c.	1.5	—	6	19	17
GL60 1)	240 a.c.	1.5	—	10	18.5	18
GL66 1)		2	—	14	19	19

Baseless green fluorescent glow lamps with attached resistor

Catalogue number	Mains voltage V	Approx. current mA	Base	Max. diam.	Overall length	Fig. length
GR52 1)	220 a.c.	1.5	—	6	19	20
GR60 1)	240 a.c.	1.5	—	10	18.5	21
GR66 1)		2	—	14	19	22

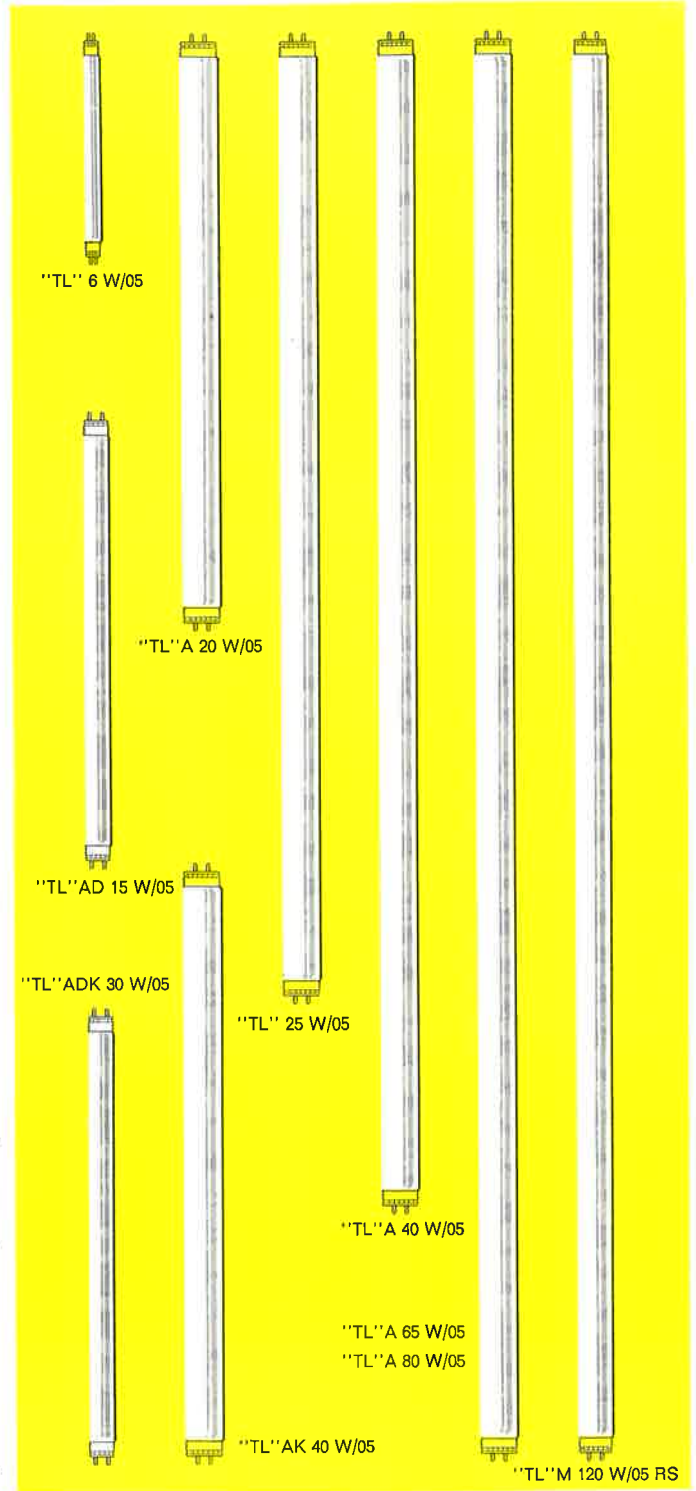
SUPER ACTINIC "TL" LAMPS

Super actinic "TL" lamps are second to none as regards efficiency of long-wave U.V. radiation, needed for various photochemical processes, such as light (dialo) printing, copying and reproduction. They are tubular, low-pressure mercury lamps, coated on the inside with a fluorescent layer that transforms the short-wave ultra-violet radiation of the arc into useful actinic radiation with a peak at approximately 3700 Å.

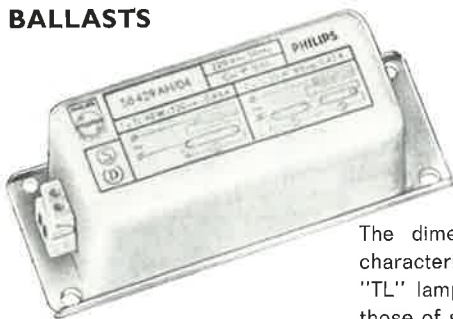
Super actinic "TL" lamps are operated from a.c. mains. As lamp powers are low, several lamps are often used together per machine when a larger light-printing speed is required. Heat production is relatively small and therefore the lamps may be placed quite near to the printing materials and no complicated cooling systems are required. In order to achieve maximum results, it is recommended to place and space the lamps in such a way that they intercept each other's radiation as little as possible and that the bulb-wall temperature does not exceed 40 - 50 °C.

Catalogue number	Lamp voltage V	Lamp current A	Cap	Diam.	Overall length 1)
"TL" 6 W/05	44	0.16	Miniature bipin	16	226
"TL"AD 15 W/05	54	0.32	Standard bipin	26	451
"TL" A 20 W/05	57	0.39	Standard bipin	38	604
"TL" 25 W/05	94	0.29	Standard bipin	38	984
"TL"ADK 30 W/05	44	0.84	Standard bipin	26	451
"TL" A 40 W/05	106	0.44	Standard bipin	38	1213
"TL"AK 40 W/05	46	0.88	Standard bipin	38	604
"TL" A 65 W/05	110	0.67	Standard bipin	38	1514
"TL" A 80 W/05	99	0.87	Standard bipin	38	1514
"TL" M 120 W/05 RS	100	1.50	Standard bipin	35	1514

1) Inclusive of pins.



BALLASTS



The dimensions and electrical characteristics of super actinic "TL" lamps being identical with those of standard "TL" lamps of the same rating, the ballasts and other accessories of the latter can be used. For data see pages 86 - 87.

ABSOLUTE SPECTRAL ENERGY DISTRIBUTION FOR "TL" A 40 W/05

