



The new generation of energy saving and affordable T5 Mains tube lighting

Essential LED tubes T5 Mains

The Essential LEDtube T5 is an affordable LED solution suitable for replacing T5 fluorescent lamps. Thanks to a unique design, Philips Essential LED tube T5 Mains can be directly installed in luminaires operating on mains power connection. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

Benefits

- Up to 50% energy saving compared with conventional fluorescent systems
- Easy installation: retrofit replacement of existing T5 lamps improving the quality of light
- Lower maintenance costs

Features

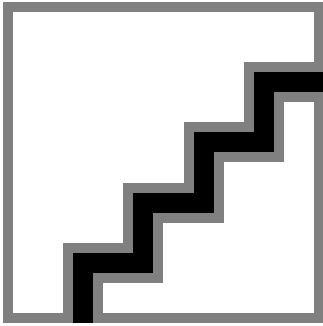
- Retrofit solution with Long lifetime of 25.000hs
- Excellent quality of light with CRI >80
- High power factor >0,9
- Instant on, no flicker or buzz

Application

- Office, Shop, Education, Retail
- Industrial facilities and warehouses

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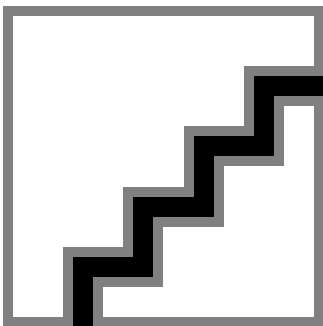
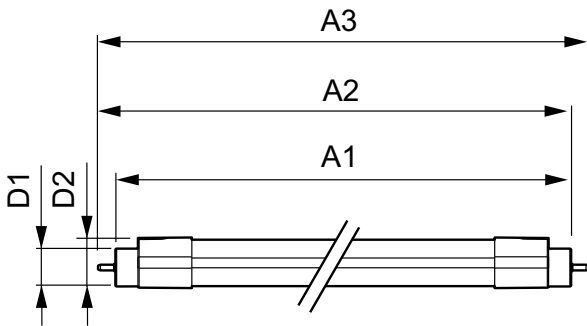
Versions



G5

LEDtube G5

Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube 1200mm 13W865 G5 I	15.8 mm	21.0 mm	1148.0 mm	1155.0 mm	1162.0 mm
MASTER LEDtube 600mm 7.5W840 G5 I	15.8 mm	21.0 mm	548.0 mm	555.0 mm	562.0 mm
MASTER LEDtube 1200mm 13W840 G5 I	15.8 mm	21.0 mm	1148.0 mm	1155.0 mm	1162.0 mm
MASTER LEDtube 600mm 7.5W865 G5 I	15.8 mm	21.0 mm	548.0 mm	555.0 mm	562.0 mm

Product	D1	D2	A1	A2	A3
ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	15.8 mm	19 mm	1149 mm	1156.1 mm	1163.2 mm
CorePro LEDtube 600mm 8W830 G5 I MX	15.8 mm	19 mm	549 mm	556.1 mm	563.2 mm
ESSENTIAL LEDtube 600mm 8W840 G5 I MX	15.8 mm	19 mm	549 mm	556.1 mm	563.2 mm
ESSENTIAL LEDtube 600mm 8W865 G5 I MX	15.8 mm	19 mm	549 mm	556.1 mm	563.2 mm
ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	15.8 mm	19 mm	1149 mm	1156.1 mm	1163.2 mm
ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	15.8 mm	19 mm	1149 mm	1156.1 mm	1163.2 mm

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Approval and Application

Energy Efficiency Label (EEL) A+

Controls and Dimming

Dimmable No

Operating and Electrical

Input Frequency 50 to 60 Hz

Starting Time (Nom) 0.5 s

General Information

Cap-Base G5

Switching Cycle 50000X

Light Technical

Llmf At End Of Nominal Lifetime (Nom) 70 %

Temperature

T-Ambient (Max) 45 °C

T-Ambient (Min) -20 °C

T-Storage (Max) 65 °C

T-Storage (Min) -40 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	15 kWh
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	15 kWh
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	9 kWh
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	9 kWh
929001275212	ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	-
929001275312	ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	-
929001275412	ESSENTIAL LEDtube 600mm 8W840 G5 I MX	-
929001275512	ESSENTIAL LEDtube 600mm 8W865 G5 I MX	-
929001380612	ESSENTIAL LEDtube 600mm 8W830 G5 I MX	-
929001380912	ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	-

Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	33 V	13 W
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	33 V	13 W
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	19 V	7.5 W
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	19 V	7.5 W
929001275212	ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	100-240 V	16 W

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)
929001275312	ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	100-240 V	16 W
929001275412	ESSENTIAL LEDtube 600mm 8W840 G5 I MX	100-240 V	8 W
929001275512	ESSENTIAL LEDtube 600mm 8W865 G5 I MX	100-240 V	8 W
929001380612	ESSENTIAL LEDtube 600mm 8W830 G5 I MX	100-240 V	8 W
929001380912	ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	100-240 V	16 W

General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	40000 h	40000 h
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	40000 h	40000 h
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	40000 h	40000 h
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	40000 h	40000 h
929001275212	ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	30000 h	30000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001275312	ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	30000 h	30000 h
929001275412	ESSENTIAL LEDtube 600mm 8W840 G5 I MX	30000 h	30000 h
929001275512	ESSENTIAL LEDtube 600mm 8W865 G5 I MX	30000 h	30000 h
929001380612	ESSENTIAL LEDtube 600mm 8W830 G5 I MX	30000 h	30000 h

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Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001380912	ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	30000 h	30000 h

Light Technical (1/2)

Order Code	Full Product Name	Beam	Correlated Color		Color
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	160 °	840	4000 K	83
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	160 °	865	6500 K	83
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	160 °	840	4000 K	83
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	160 °	865	6500 K	83
929001275212	ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	-	840	4000 K	80

Order Code	Full Product Name	Beam	Correlated Color		Color
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929001275312	ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	-	865	6500 K	80
929001275412	ESSENTIAL LEDtube 600mm 8W840 G5 I MX	-	840	4000 K	80
929001275512	ESSENTIAL LEDtube 600mm 8W865 G5 I MX	-	865	6500 K	80
929001380612	ESSENTIAL LEDtube 600mm 8W830 G5 I MX	-	830	3000 K	80
929001380912	ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	-	830	3000 K	80

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux	Luminous Flux	Rated Beam
		(Nom)	(Rated) (Nom)	Angle
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	1600 lm	1600 lm	160 °
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	1600 lm	1600 lm	160 °
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	800 lm	800 lm	160 °
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	800 lm	800 lm	160 °
929001275212	ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	1850 lm	1850 lm	-

Order Code	Full Product Name	Luminous Flux	Luminous Flux	Rated Beam
		(Nom)	(Rated) (Nom)	Angle
929001275312	ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	1850 lm	1850 lm	-
929001275412	ESSENTIAL LEDtube 600mm 8W840 G5 I MX	900 lm	900 lm	-
929001275512	ESSENTIAL LEDtube 600mm 8W865 G5 I MX	900 lm	900 lm	-
929001380612	ESSENTIAL LEDtube 600mm 8W830 G5 I MX	1000 lm	1000 lm	-
929001380912	ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	2000 lm	2000 lm	-

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	50 °C
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	50 °C
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	60 °C
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	60 °C
929001275212	ESSENTIAL LEDtube 1200mm 16W840 G5 I MX	70 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001275312	ESSENTIAL LEDtube 1200mm 16W865 G5 I MX	70 °C
929001275412	ESSENTIAL LEDtube 600mm 8W840 G5 I MX	70 °C
929001275512	ESSENTIAL LEDtube 600mm 8W865 G5 I MX	70 °C
929001380612	ESSENTIAL LEDtube 600mm 8W830 G5 I MX	70 °C
929001380912	ESSENTIAL LEDtube 1200mm 16W830 G5 I MX	70 °C

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