ENSA™
Energy Saving Devices

T8 LED TUBE WITH PIR MOTION SENSOR

Part Numbers: LEDTU9WS3 / LEDTU9WS10 (2ft / 600mm) LEDTU19WS3 / LED19WS10 (4ft / 1200mm)

Available in either 3 minute or 10 minute ON-Time Duration

Overview

LED tube lighting saves energy by being more efficient than the fluorescent tube lights that it replaces. However, in places where there is low people-traffic and a requirement to be constantly illuminated, even greater energy savings can be achieved through the use of sensor tube lighting.

The inclusion of an infrared sensor means that the light dims when there's no movement in a room. Whilst movement is detected the light will switch to maximum brightness for 3 or 10 minutes (model dependent).

Sensor LED tube lights use less power when dimmed which contributes to your energy savings. This makes it perfect for car parks, underground tunnels or passage-ways and other areas with intermittent people traffic.

Sensor LED tube light dimmed, conserving energy when no movement is detected (left); Light at full power when movement is detected (right).

Features

- Infrared sensor effectively saves 60%~80% energy consumption.
- Cool light reduces the ambient temperature.
- Energy saving and environmentally friendly.
- No UV or IR radiation.
- No warm up: LED lights are at maximum intensity only seconds after they are switched on.
- Powered from single end of LED tube.
- Reduce carbon emissions.

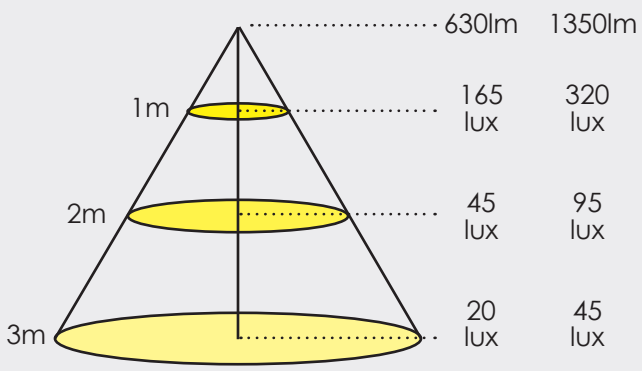
Specifications

For LEDTU9WS(X) and LEDTU19WS(X)

Model Number	LEDTU9WS(X)	LEDTU19WS(X)
ON-Time Duration	3 Minutes OR 10 Minutes	
Input Voltage	100-240V AC 50/60Hz	
Power Consumption (full)	9W	19W
Power Consumption (dim)	2W	4W
Luminous Flux (full)	630 lm	1350 lm
Luminous Flux (dim)	130 lm	280 lm
Colour Rendering Index	> 60	
Colour Temperature	5000K	
Operational Temperature	-20°C ~ 40°C	
Beam Angle	120°	
Socket Base	G13	
Cover	Frosted	
Dimensions	Ø30.5 x 580 (mm)	Ø30.5 x 1198 (mm)
Net. Weight	0.27kg	0.47kg

LUX Performance

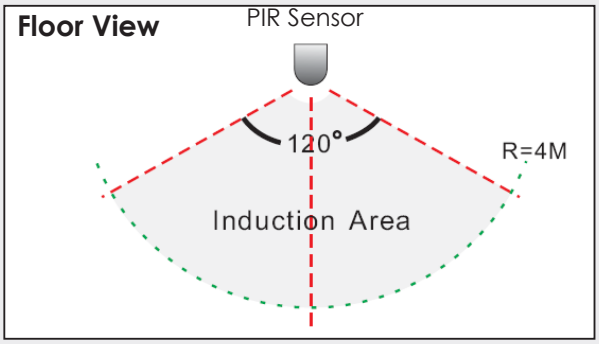
Straight-down Illumination Distribution
For LEDTU9WS(X) (630lm) and LEDTU19WS(X) (1350lm)

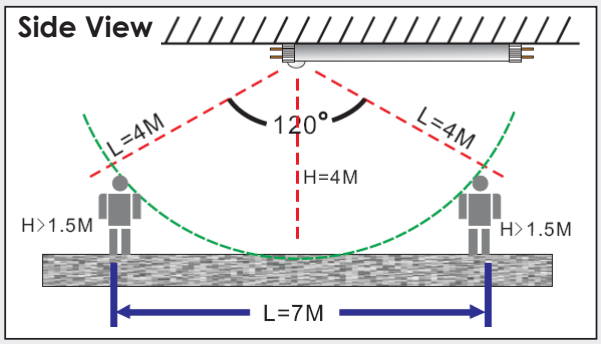


Infrared Motion Sensor Operation

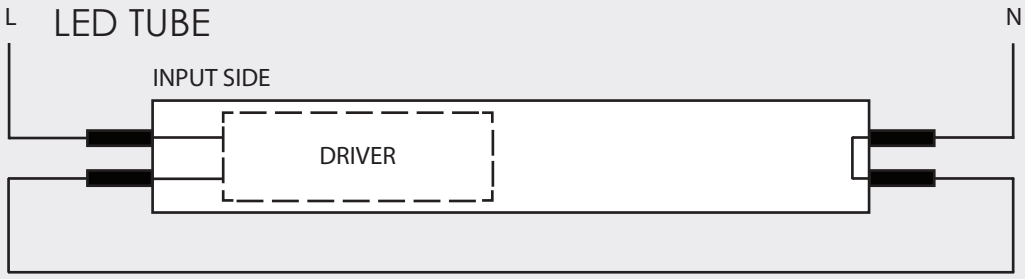
1. When movement is detected within a 4m radius (120° angle of sight) of the LED tube installation the LED tube will brighten.

2. After 3 or 10 minutes (model dependent), if no movement is detected in the 4m radius of the infrared sensor, the LED tube light will return to its dimmed brightness setting.





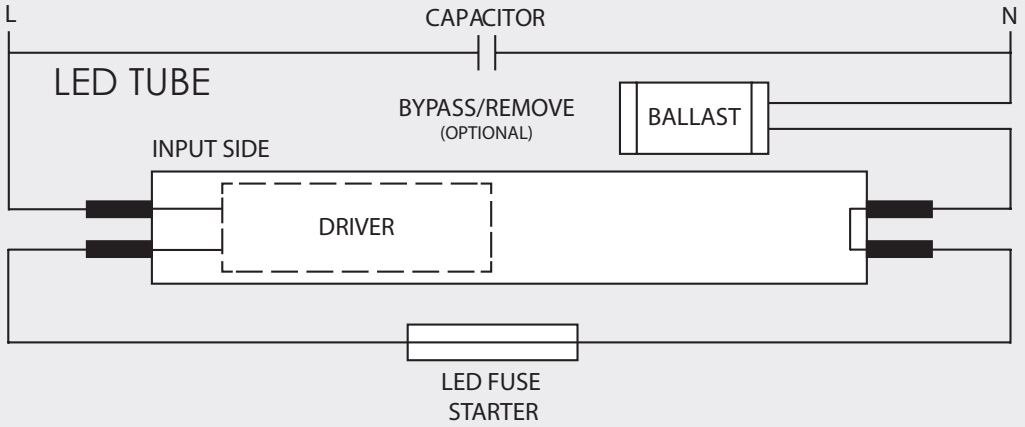
Installation Method 1 - New Installation



Notes

- To avoid potentially damaging short circuit, wire as per the diagram left.

Installation Method 2 - Magnetic Ballast Retrofit Installation

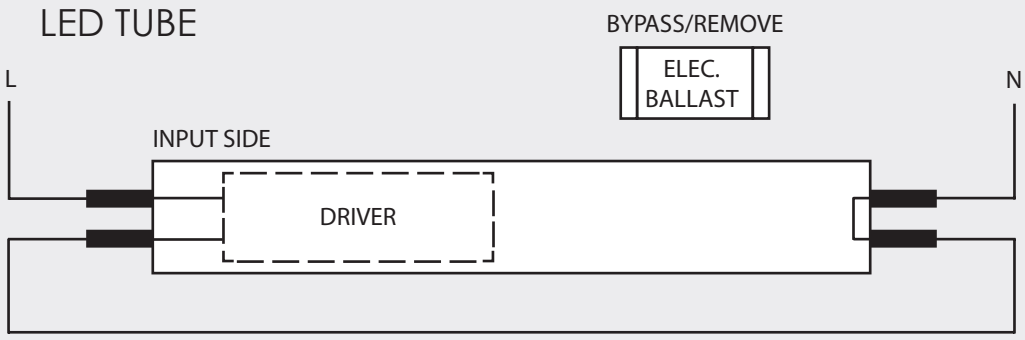


Notes

- Bypassing/removing the magnetic ballast and capacitor will increase energy savings and assist with power factor.

- Starter must be changed to LED fuse starter.

Installation Method 3 - Electronic Ballast Retrofit Installation



Notes

- The electronic ballast MUST be removed or bypassed.

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