

# LED TRAFFIC SIGNAL ASPECTS

## Reliable And Advanced Traffic Signals

PPK Technology has its own range of LED traffic signal aspects. Traffic signal aspects are used to provide signal information to the road user. The first thing the road users see on a traffic junction is the LED signal aspects. Generally, traffic aspects have a configuration of red, amber and green and each LED retrofit has a diameter of 300 mm. Other aspect and retrofit sizes such as 200/100 mm are available as well. Retrofits with arrow, full, pedestrian, bicycle and other symbols are available. The traffic signal aspect casing is made of polycarbonate resin (black) and comes with visors, clamp or bracket mounting and rubber ring accessories.



## • Features:

The LED signal aspect consumes significantly lower power compared to halogen lamps. Wattage for the LED lamps generally range from 6-13 watts (Red and Amber) and 8-16 watts (Green). The dominant wavelength colours emitted by the LED retrofits are typically 630 nm (Red), 580 nm (Amber) and 495 nm (Green), respectively. Variations of colours exist and can be provided as required by the customer.

## • Key Features:

- \* Amongst industry's lowest power consumption for all colours
- \* Meets or exceeds intensity, colour and uniformity specifications
- \* Temperature compensated power supplies for longer LED life
- \* Uniform appearance light diffusing
- \* ITE products are Intertek/ETL certified
- \* All units operate at voltage of 230 Vac  $\pm 10\%$  and frequency 50 $\pm 5$ Hz
- \* Maintains 70% lumen intensity after 100,000 hrs operation
- \* 3 years warranty (extendable up to 5 years)

## • LED aspects available:

- \* Red, Amber, Green - Full (300 mm diameter): Hi Flux
- \* Red, Amber, Green - Arrow (300 mm diameter): Hi Flux
- \* Red, Green - Pedestrian (Tunggu / Lintas) (300 mm diameter): Hi Flux and Hi Brite
- \* Animated Pedestrian - Red and Green Animated c/w countdown (200 mm) Hi Brite with diffusion screen
- \* Red, Amber, Green - Full (100 mm and 200 mm): Hi Brite

## • LED Retrofit Specifications:

Item	Specifications
Power supply	230 Vac $\pm 10\%$ and frequency 50 $\pm 5$ Hz
Standards	EN 12368 compliant
Convex Tinted Lense	Available
Fuse and Transients	Available
Operating Temperature Range	-10°C to + 74°C Celsius
Turn Off/ Turn On Time	75 milli seconds max
Total Harmonic Distortion	<20%
Electromagnetic interference	Meets FCC Title 47, Subpart B, Section 15 Regulation
Blowing Rain / Dust Spec	MIL 810F compliant
Minimum Luminous Intensity (measured at intensity point) (cd)	Red 250 Amber 250 Green 250
Dominant Wavelength (nm)	Red 630 Amber 590 Green 490
Lamp conflict compatibility	Compatible with MATC lamp failure and conflict detection system

PPK Technology products are available nationwide in Malaysia or overseas through selected agents. Products can be supplied, installed, configured and tested by PPK Technology or an approved contractor. For a complete list of products and services available and technical support staff, contact our office or visit our website.

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