

## FUTURLED 3 Retro Refit

### Product Features

- Five year warranty
- Lower energy costs through reduced energy consumption
- Optimum signal perception through high quality luminance
- Uniform signal appearance through centralised homogenous light distribution
- Highest anti - phantom performance
- Advanced LED driver board which controls the LED's, offering optimum performance and long life
- Reduced maintenance costs
- Specifically designed lenses offer high levels of protection against possible damage from traffic flow and vandalism
- Load Compensation Unit (LCU) provides lamp monitoring and advanced red lamp monitoring

The **FuturLED 3 Retro Refit** entirely replaces the component lenses, reflector, lamp holder, wiring and transformer. Replacing the optical component of the existing conventional traffic signals with a single unit, the refit is quick and uncomplicated.

By using light emitting diodes, the **FuturLED 3** has a minimal energy consumption which reduces costs and maintenance. The **FuturLED 3** is HA and BSI tested, uses a central light source for more uniform output and is backed by a 5 year warranty. The specifically developed optical system provides homogenous light distribution, phantom light reduction, colour stability and harmonisation with existing lens types.

The **FuturLED 3** Retro Refit module is compatible with most standard UK approved signal head housings.

The LCU provides lamp monitoring and advanced red lamp monitoring, compatible with Motus Traffic, Siemens, PEEK and Telent controllers.



Due to continuous efforts to develop products that are responsive to customer needs, the above specifications are subject to change



## Technical specification

### **DIMENSIONS**

33.0 cm x 36.0 cm x 11.5 cm (L x W x H)

### **WEIGHT**

1.82 Kg (Based on a Helios Retro Refit)

### **LENS OPTIONS**

Red, Amber, Green, Red Man, Green Man, Green Left/Ahead/Right Arrow

Red/Amber/Green Bicycle Red/Green Equestrian

### **POWER CONSUMPTION (TYPICAL)**

Red 13W, Amber 13W, Green 13W

### **REGULATORY**

Phantom Light 16:1 (Class 5) acc. to EN12368 Optical Data acc. to EN12368

EMC and electrical requirements acc. to EN12368 Temperature range acc. to EN12368 A, B, C

Lens impact resistance acc. to EN 60598—1

### **ENVIRONMENTAL**

Temperature range -40°C to +60°C Relative humidity < 95%

### **ADVANCED RED LAMP MONITORING**

Compatible with Motus Traffic, PEEK, Siemens and Telent/Microsense controllers

### **ASPECT TYPE**

LED 230V, central light source, high lux

### **SUPPLY**

Operating voltage 160V to 230V (typical)

### **COMPATIBLE SIGNAL HOUSINGS**

GEC, Microsense, Motus Traffic, Page, Plessey, PEEK and Siemens

### **TESTING**

Highways Agency Yate Labs (2002)

BSI (2003, 2006, 2008)

### **INTELLIGENT LED DRIVER BOARD**

Electronically monitors any LED failures

Automatically compensates for any failures

### **WARRANTY**

Optical performance is backed by a 5 year warranty

BSI (2003, 2006, 2008)



Due to continuous efforts to develop products that are responsive to customer needs, the above specifications are subject to change

