LED Retrofit

Product Datasheet

YUNEX TRAFFIC

Overview

With concern growing for the environment and increasing energy costs, users of traffic signalling equipment are increasingly focused on opportunities to reduce power consumption, as well as ensuring supplier offerings are as environmentally friendly as possible.

The Yunex Traffic LED Retrofit solution provides real opportunities for significant carbon footprint reductions as well as minimising waste, contributing to a more sustainable solution.

There are thousands of traffic signals installed, but the majority of these are still fitted with traditional incandescent signal lamps. As well as consuming large amounts of power, the need to regularly replace these lamps has a significant carbon impact, both in the manufacture of the lamps and the vehicle miles travelled.

How we help?

Consuming only an average of 9W across a typical dim/bright cycle, the replacement of incandescent lamps with the latest LED Retrofit modules offers power and carbon savings of over 75%.

The retrofit is achieved by simply replacing each existing signal head door and incandescent optical assembly with a new LED door and upgrading the existing traffic signal controller. This ensures that existing investment in the majority of the installed signal is retained, minimising waste and disposal issues, which further enhances the carbon savings achieved by the retrofit option.

Solution benefits

- Very low power (average 9W)
- Energy savings of over 75%
- Excellent optical performance utilising the Helios traffic signal aspects
- Simple installation
- Low environmental impact
- Retains existing infrastructure investment
- Fits existing Helios or Peek Elite traffic signal bodies

Solution features

- Compatible with the ST700, ST750, ST800 and ST900 traffic signal controllers
- Full lamp monitoring compatibility utilising new LED modules which interface to enhanced lamp switch cards
- Upgraded controller firmware

Technical Specification

Operating voltage/dimming	• Bright mode: 200V to 264V AC RMS • Dim mode: 120V to 180V AC RMS • Frequency: 48Hz to 64Hz
Typical power consumption	• Bright mode: 13W • Dim mode: 5W
Upgrade aspect types	• RAG • Far-sided pedestrian red/green man • Green arrow • Other aspect types available on request
Compatible controllers	• ST700, ST750, ST800 and ST900 (via upgrade of lamp switch cards and firmware) • ST750 LED and ST900 LED
Lamp monitoring	• Lamp failure monitoring of all Retrofit aspects • Red lamp monitoring of all Retrofit vehicle red aspects

Elexon Code

Description	Part Number	Charge Code	Nominal Watts
Helios CLS (LV) traffic signal head (3 aspect)	667/1/31500/9xx	79 41 012 002 100	12
Helios CLS (LV) traffic signal head (2 aspect)	667/1/31500/9xx	79 43 012 002 100	12
Helios CLS (LV) traffic signal head (2 aspect)	667/1/31500/9xx	79 59 012 002 100	12

For complete information on Elexon codes please refer to Yunex Traffic document 667/RE/29050/000

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