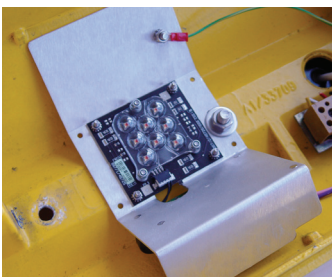


Wait Indicator LED retrofit solutions

Low power consumption and long life

siemens.co.uk/traffic



Siemens LED retrofit solutions for incandescent Wait Indicators offer a highly cost effective upgrade route for a variety of existing indicator boxes. Offering low power consumption and long life they are particularly beneficial when used alongside a wider LED traffic signal retrofit program.

- Very low power consumption
- Excellent visibility, particularly in bright sunlight, using yellow LEDs
- Easy installation
- Low environmental impact – most of the installed equipment stays on site.
- Full lamp monitoring compatibility with ST800 and ST900 controllers
- 5 year warranty

Overview

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

The Siemens LED retrofit offering enables Helios and Peek Elite traffic signals to be efficiently upgraded to LED technology, but does not cover incandescent Wait Indicators. If these are left on site it is often necessary to continue bulk lamp changes, which can reduce the overall cost benefit of a retrofit program.

The new Central Light Source (CLS) LED Wait Indicator retrofit solution enables a variety of existing 48V incandescent Wait Indicators to be upgraded to the latest CLS LED technology, offering reduced power consumption and long life, eliminating the need to undertake regular lamp changes.

To obtain the full benefits of these units and in particular to allow lamp monitoring, they must be installed on Siemens controllers which have been upgraded for LED operation, either as part of a retrofit program or when supplied directly as a ST900 LED controller.

Excellent visibility in bright sunlight

Using the latest yellow LEDs the CLS LED Wait Indicator retrofit offers improved visibility over conventional 'white' wait lamps, particularly in bright sunlight, whilst complying with the requirements of TSRGD 2002 (figure 4003)

Alternative options

As an alternative to the CLS LED Wait Indicator retrofit, a simple "LED lamp" is also available. This 'warm white' option is not able to be lamp monitored and does not have all the visibility benefits of the yellow CLS solution, but does offer a slightly lower cost 48V implementation. In addition a 230V option for very old Wait Indicator units is also available.



Simple Installation

With both the CLS LED Wait and LED lamp solutions installation is simple. For the CLS LED Wait this typically involves removing the lamp holder plate and / or the lamp reflector and fitting the new CLS LED plate assembly.

When using the LED lamp, the upgrade is typically limited to replacing the incandescent lamp with the LED lamp. However, for some units a new lamp holder plate is also required to adjust the orientation of the lamp to give acceptable optical performance.

Technical specification

Wait Indicator types covered

- Siemens Mk I (Old style)
- Siemens Mk II (New style)
- Peek

(Further types are being added - contact Siemens Poole for the latest information)

Display colour

- CLS LED retrofit - Yellow
- LED Lamp - Warm White

Lamp monitoring compatibility (CLS LED Wait retrofit only)

- ST750 ELV
- ST900 ELV
- ST800 (post LED retrofit)*
- ST900 (post LED retrofit)*
- ST900 LED*

* Requires controller firmware update

Operating Voltages

- LED CLS Retrofit - 48V nominal
Suitable for use on LV controllers with wait transformers or direct ELV drives.
- LED Lamp - 48V nominal
Suitable for use on LV controllers with wait transformers or direct ELV drives.
- LED Lamp - 230V nominal
- Dimming supported on all versions
(LV controllers to be set to 140V dimming)

Part Numbers

667/1/47700/000

LED CLS Wait retrofit kit (lamp monitorable)
(High visibility yellow - suitable for Siemens MK I, Siemens MK II and Peek wait indicators)

667/1/47701/000

Interface kit (Only required when retrofitting Siemens MK II wait indicators)

418/4/53470/050

LED lamp - 48V (NOT lamp monitorable)
(Standard visibility warm white - suitable for Siemens MK I, Siemens MK II and Peek wait indicators)

418/4/53470/240

LED lamp - 230V / 240V (NOT lamp monitorable)
(Standard visibility warm white - suitable for Siemens MK I, Siemens MK II and Peek wait indicators)

667/1/45075/000

Lamp holder mounting bracket (Required when fitting the LED lamp in to Siemens Wait boxes)

Traffic Solutions

Siemens
Sopers Lane
Poole
Dorset
BH17 7ER

siemens.co.uk/traffic