



SIEMENS

Helios

Traffic signals

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The Helios range of traffic signals is renowned for delivering optimum clarity, physical appearance and reliability. Operating at standard 230V and 48V ELV, the range features a choice of head options including Siemens' SIRA style enhanced optics and the latest LED Central Light Source (CLS). All Helios LED signals offer the benefit of very low power consumption and carbon footprint and the ELV versions also improve safety on-street.

Helios traffic signals are extremely attractive, incorporate modern design features and their modular construction offers a wide choice of assembly options.

Advanced LED light source

The Helios family of traffic signals includes standard tungsten halogen optics and the latest generation low power LED CLS optics, which are able to achieve an average power consumption of less than 8 watts.

Employing a highly developed SIRA style lens, the optic provides maximum transmission of illumination whilst ensuring that extraneous light is not reflected back to the viewer when the signals are switched off. The result is a signal that is extremely clear and easy to see in all weather and lighting conditions.

An innovative internal masking arrangement allows symbols such as filter arrows to be easily implemented without the need for these to be screened onto the optic. This gives great flexibility for on-site adjustment, together with the ability to easily convert 'standard' signals to arrows and symbols if this becomes necessary. In addition to standard tube-based regulatory signs, the Helios range offers a wide selection of long-life LED-based symbols, available in both LV (230V) and ELV (48V) varieties.

Lamp monitoring compatibility

Helios' Central Light Source offers a highly reliable LED signal, but defects in street cables and terminations mean that signal failures may still occur and lamp monitoring is therefore recommended.

Utilising Siemens' advanced lamp monitoring technology both LV and ELV CLS signals can be monitored directly by appropriately equipped Siemens controllers. This allows incandescent signals to be replaced with LED optics, eliminating the need for expensive street cable or controller alterations.

- Highly reliable Central Light Source technology for extended life
- Very low power consumption offering reduced energy costs and lower carbon footprint
- LV (230V) and ELV (48V) LED versions
- Improved safety on-street
- Robust, vandal-resistant construction
- Superior head mounting arrangement for precise tilting and rotation
- Unique anti-impact feature to prevent damage from glancing impacts
- Fully lamp monitorable

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Robust modern design hoods

Helios hoods are moulded in a flexible yet robust polymer, ensuring exceptional resistance to damage and great dimensional stability. A unique indexing feature on both primary and secondary hoods facilitates precision location. A wide range of louvered hoods may be fitted, providing extra screening where visibility needs to be further restricted, and optional anti-vandal screens are also available for sites where lens damage is common.

Modular design

Helios has been designed in a modular format, to provide traffic engineers with maximum flexibility to meet the demands of modern intersection control strategies. Typical options include left and right arrows as well as four-inline signals.

Mounting arrangements

The signal head features an improved mounting arrangement, allowing simple tilting and rotation to be achieved during installation. Additionally, the rotating mechanism incorporates a unique anti-impact feature, providing protection against damage from glancing impacts.

Backing boards and internal components

The simple and robust design of the backing boards further ensures high resistance to impact damage. The internal design accommodates a range of equipment, including audible drive circuits and tactile power supplies.

Technical specification

Optical performance

- Certified to EN12368, performance class 3/2
- Phantom ratio: Class 5 (better than 16:1)
- Output intensity: Type M class A (400 cd)

Optic sizes

- Standard optic: 200mm with SIRA lens
- Regulatory sign: 290mm

Modular construction options

- Single, two, three and four aspect assemblies
- Flexible options for side boxes and other requirements
- Will accommodate a wide range of louvered hoods
- Backing boards available for all construction options
- Retro-reflective edging
- Anti-vandal lens screen

Illumination methods

LV signals:

- High intensity tungsten halogen lamps
- 230V (LV) Central Light Source LED array with automatic LED failure detection
 - Signal dimming: 185V
 - Integrated lamp monitoring, compatible with Siemens LED controllers and LED retrofit solutions
- Twin fluorescent tube regulatory signs
- 230V long-life LED regulatory signs

ELV signals:

- 48V (ELV) Central Light Source LED array with automatic LED failure detection
 - Signal dimming: 27.5V
 - Integrated lamp monitoring, compatible with Siemens ST750ELV, ST900ELV and ST950ELV
- 48V long-life LED regulatory signs

Power consumption

Helios CLS ELV

	Bright	Dim
Red aspect	12W	4W
Amber aspect	12W	4W
Green aspect	12W	4W

Elexon code: 79 41 012 000 100

ELV LED regulatory sign 8W
Elexon code: 40 0008 0000 100

Helios CLS LV (For LED and retrofit controllers)

	Bright	Dim
Red aspect	15W	5W
Amber aspect	15W	5W
Green aspect	15W	5W

Elexon code: 79 41 015 000 100

LV LED regulatory sign 10W
Elexon code: 79 48 010 000 100

Helios high intensity incandescent

	Bright	Dim
Red aspect	54W	23W
Amber aspect	54W	23W
Green aspect	54W	23W

Siemens Infrastructure & Cities

Traffic Solutions

Sopers Lane, Poole, Dorset, BH17 7ER

Tel: +44 (0) 1202 782000 Email: sales.stc@siemens.com

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