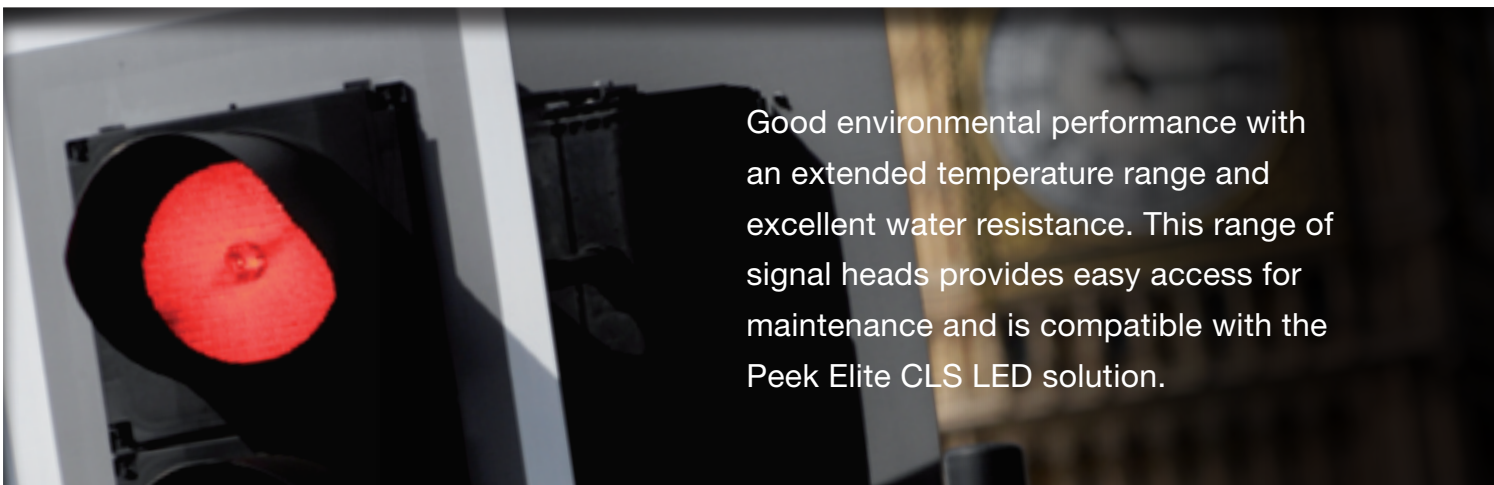


Elite Halogen Signal Head

Field proven, robust and reliable.



Good environmental performance with an extended temperature range and excellent water resistance. This range of signal heads provides easy access for maintenance and is compatible with the Peek Elite CLS LED solution.

Performance

Enhancements in sun phantom and intensity provide greatly improved performance of signals with symbols, enabling all symbols to be provided in a 200mm diameter standard. The green arrow particularly benefits from better intensity and beam distribution.

Robust Structure

The signal head components are injection moulded from polypropylene. The standard head comprises three discrete units screwed vertically together into a single rigid structure. Interconnection of cables is allowed by an integral waterproof conduit running the complete length of the signal head. Internal mounting points are provided for accessories used in conjunction with the signal head. Four securing locks allow the door to hinge from either the left or right sides as well as allowing complete removal. Once the door is opened the complete cavity is open for maintenance allowing easier access.

The door contains the completed optical assembly as well as an interface for fitting visors or similar accessories.

Angular Distribution

A more precise beam distribution is provided, producing high intensities of light in the centre of the optic. This is particularly important in gantry mounted signals, where more light is directed downwards.

Key Features

- Safer operation for the user by maintaining both a high level of phantom contrast and a good anti-washout performance
- Robust and highly reliable
- Highly visible illumination through precise beam distribution
- Peek Elite CLS LED Module retrofits into Elite Halogen Signals allowing for future upgrade
- Supports multiple bracket types
- Optic modules can be connected in any combination vertically and horizontally (using the available brackets)
- Available with a full range of backing boards
- Designed to meet the UK classes of the appropriate European directives

Elite Halogen Signal Head

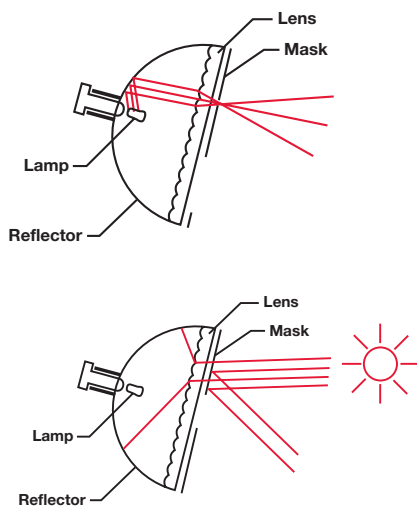
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Mechanical Configuration

Both the lampholder and reflector are moulded from polycarbonate, with a rugged bayonet fitting to the rear of the reflector for simple operation to allow quick and accurate filament alignment. The vacuum metallised reflector provides better optical performance and when placed in a sealed environment removes the need for cleaning.

The lens is moulded from acrylic for UV stability removing the need to replace polycarbonate lenses to ensure colour is maintained throughout the working life of the signal.

The lens design consists of an array of small lenslets on the inner face of the lens. Light is focused to predetermined points on the front surface of the lens. A black mask is placed upon the front of the lens to allow only the focused light out of the lens. This has the effect of blocking incoming light, such as low angle sunlight, and hence drastically reducing the problem of sun phantom. When viewed within the required angle of vision however, the optic system exhibits no reduction of intensity.



Chromaticity

The colours of the signal light as declared red, yellow and green are compatible with:

- BSEN12368
- BS1376

Environmental Credentials

| | Elexon Codes | Watts | Annual kW: Hr | CO2 kg pa |
|---------------------|-------------------|-------|---------------|-----------|
| 3 aspect vehicle | 79 02 050 000 100 | 50 | 438 | 235 |
| 2 aspect pedestrian | 79 04 050 000 100 | 50 | 438 | 235 |
| 1 aspect filter | 79 04 065 000 100 | 65 | 569 | 306 |

Specifications

The optic has been designed to meet the UK classes (as defined in TSRGD 2002) of BSEN12368 and HD638. Within BSEN12368 Signals, Heads and Poles, several performance criteria can be specified depending on national requirements; the Peek signal conforms to the following classes:

| | |
|------------------------------|--------------------------|
| Luminous Intensity: | Class 3/2 400 - 2500 cd |
| Angular Distribution: | Table 4 Medium Wide Beam |
| Luminous Uniformity: | 1:10 |
| Sun Phantom: | Class 5 |

In common with existing optics, the Peek signal comprises a lamp, lampholder, reflector and lens.



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Peek is a leading supplier of intelligent transport solutions. For more than 30 years, the firm has been providing advanced traffic control products and systems, management and maintenance services for both the urban and highways markets. Peek's established and proven portfolio includes traffic management systems incorporating SCOOT, highway congestion management and enforcement systems, vehicle detection systems, exterior lighting, as well as supervisory and communications systems. Peek is ISO 9001:2008 and ISO 14001:2004 certified.

With headquarters in Basingstoke, Hampshire, Peek employs more than 500 staff throughout the UK. Peek is part of the Traffic and Infra division of Imtech NV, a global technology services provider based in the Netherlands.

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