

SWARCO

# ELITE TLED



## OVERVIEW

By using the latest in LED technology, the Elite TLED signal solution offers significantly reduced power consumption over conventional tungsten halogen lamps and previous LED models. Power savings of up to 85% are achievable, compared with traditional tungsten halogen lamps, resulting in lower operating costs and reducing the environmental impact.

With one of the best Elexon codes in the market, this UK LED signal solution provides improved reliability along with reduced operating costs. The Central Light Source technology delivers a far superior optical performance compared with standard halogen and previous LED signal solutions. The Elite TLED signal head continuously monitors its own LED components. If a failure occurs, the internal fuse ruptures within the LED optic module itself. Maximum power efficiency is achieved when the signals are driven by a PTC-1® or PTC-1® Lite controller as this provides full integral lamp monitoring without the need for any additional components.

**EXTRA LOW VOLTAGE (ELV)**  
The ELV version supports AC and

rectified AC ensuring compatibility with the PTC-1 family of controllers without the need for extra hardware. It also offers the additional benefit of improved on-street safety. This signal technology supports clients looking to deliver safety at the roadside whilst reducing the costs and environmental impact of their traffic infrastructure.

### LOW VOLTAGE (LV)

An optional Lamp Emulation Module (LEM) is also available that enables the 230V Elite TLED to be used with other controllers including our TSC3 and TSP, and controllers from 3<sup>rd</sup> parties. This unit monitors the current drawn by the optic and in the event of a failure, it ceases to provide halogen emulation to the controller, enabling the fault to be

detected. Where a TRX controller is in situ, a new Lamp Monitoring Module (LMM) can be used to monitor the Elite TLED optics without the need for additional LEMs.

### RETROFIT SOLUTION

Save money and reduce environmental impact by retrofitting into your current Peek Elite signal bodies on street. The Elite TLED door and optic assembly fits neatly into our standard Elite heads: reducing costs and installation time, and supporting the need to get more from the existing infrastructure. With the addition of being able to supply and retrofit LED 'WAIT' units to a majority of the traditional incandescent units, we are able to offer a complete low voltage LED conversion package.

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## ADDED VALUE

The proven ability of LED technology to reduce running costs and improve longevity in service has enabled SWARCO to bring value added products to the traffic industry. The focus on green technologies is imperative to the success of meeting key performance indicators and reducing carbon footprint. The Elite range offers flexibility and efficiency, making it possible for you to replace or retrofit in any situation.



## FEATURES & BENEFITS

- Reduced energy consumption
- Long lifespan and highly reliable - 7 year warranty available
- AC and rectified AC supported for ELV sites (PTC-1 and 3<sup>rd</sup> party controllers)
- Central Light Source architecture
- Integrated LED monitoring
- Elite TLED door assembly retrofits into existing Peek signals
- Bright and highly visible illumination
- Uniform optical output
- Specifically designed to meet European and UK standards; product is CE marked
- Range includes 200mm red, amber and green modules compliant to EN12368 and 300mm white (regulatory)
- White regulatory available as 48VAC and can be used with 230VAC (optional transformer kit required).

## ENVIRONMENTAL CREDENTIALS

Elite TLED	Elexon Codes	Annual kW:Hr	CO <sub>2</sub> kg pa
230V3 aspect vehicle	79 41 009000 100	79	42
230V2 aspect pedestrian	79 43 009 000 100	79	42
230V1 aspect filter	79 45 009 000 100	18	9
ELV48V3 aspect vehicle	79 41 009000 100	79	42
ELV 48V2 aspect pedestrian	79 43 009 000 100	79	42
ELV48V1 aspect filter	79 45 009 000 100	18	9
ELV 48V regulatory sign	79 48 008 000 100	70	38

## ENVIRONMENTAL CREDENTIALS FOR THE TRADITIONAL TUNGSTEN HALOGEN SOLUTION: PEEK ELITE

Elite Halogen	Elexon Codes	Annual kW:Hr	CO <sub>2</sub> kg pa
3 aspect vehicle	79 02 065 000 100	569	306
2 aspect pedestrian	79 04 065 000 100	569	306
1 aspect filter	79 28 065 000 100	114	61

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The table below gives a summary of the Peek Elite TLED functions and capabilities.

## TECHNICAL SPECIFICATION

<b>Technology</b>	High intensity LED
<b>Specifications</b>	<ul style="list-style-type: none"> <li>■ TSRGD 2016 defining the UK classes CLC/TS 50509:2007 (48VAC)</li> <li>■ BS EN 12368:2015 EN 50556:2011 (HD 638 )</li> <li>■ BS EN 50293:2012 BS EN 12899:2007 (300 mm white regulatory)</li> </ul>
<b>Luminous intensity</b>	Class 3/2 400-2500 cd
<b>Angular distribution</b>	Table 4 Medium Wide Beam
<b>Luminous uniformity</b>	1:10
<b>Sun phantom</b>	Class 5
<b>Operating temperature</b>	-15 °C to +60 °C

<b>Power Supply:</b>	<b>230V</b>	<b>48V</b>	
■ Bright illumination	230VAC	48VAC	Nominal 50Hz
■ Dim illumination	160VAC	28VAC	Nominal 50Hz
■ Full supply range	108V to 276V	22V to 58V	
■ Typical power consumption (all colours, no emulation)	<ul style="list-style-type: none"> <li>■ Bright 9W</li> <li>■ Dim</li> <li>■ 24 hour average</li> </ul>	<ul style="list-style-type: none"> <li>9W</li> <li>6W</li> <li>7.5W</li> </ul>	<ul style="list-style-type: none"> <li>8.5W</li> <li>3.5W</li> <li>6W</li> </ul>
■ Bright/Dim threshold	180-190V	33-36V	
■ Operating frequency	45-55Hz	45-55Hz	