

# LED TRAFFIC SIGNAL LANTERNS

FOR EUROPEAN AND BRITISH  
STANDARDS AS PER BSEN12368-2006

High quality LED lanterns specifically designed to meet European and UK standards. Available in 200mm, 300mm diameter sizes, and 230V, 48V, 42V AC power supply

## FEATURES

- Clear front lens for maximum visibility
- Coloured lens corresponds to LED colour to minimize chance of false recognition
- Available in 200mm and 300mm sizes
- Available in 230V, 48V and 42V AC
- Optically tested LED array for uniform light output
- High luminous output
- IP65 protection against dust and moisture
- Specifically designed to comply with BSEN12368:2006
- Operates in high temperatures
- Low power consumption
- LED light source for long term reliability and operational life
- Low output degradation
- Low sun-phantom intensity
- Low veiling reflection
- Retrofit optics available



### HIGH POWER EFFICIENCY

- ATS LED lanterns consume less than 20% of power compared to a halogen lantern.

### ACCREDITED MECHANICAL RELIABILITY

- ATS LED lanterns has passed rigorous environmental test such as solar radiation, vibration, temperature, bump and IP65 specified in BSEN12368:2006. It has a proven field record of long term reliability.

### LAMP FAILURE MONITORING

- ATS LED signals are fitted with power supply with self monitoring of LED failure. If 20% or 30% (can be customized) of LED fails, the aspect will shut down automatically. The shut down is latched permanently by a relay until manual reset by press of a button to ensure maximum safety.

### LIGHT OUTPUT DIMMING

- Luminance intensity is controllable by varying input voltage or by phase control. The signals have linear dimming characteristics.

### RETROFITTING

- ATS lanterns comes in standard 200mm or 300 mm diameter. Therefore lanterns can fit directly into various brand of lantern housing.

### SPECIFICATIONS – VEHICLE

|                              |   |
|------------------------------|---|
| <b>TECHNOLOGY</b>            | InGaN and AlInGaP<br>High intensity LED |
| <b>SPECIFICATIONS:</b>       |   |
| <b>UNITED KINGDOM</b>        | TR2206                                  |
| <b>EUROPE</b>                | BSEN12368:2006<br>HD638                 |
| <b>LUMINOUS INTENSITY</b>    | Class3:2 400-2500 cd                    |
| <b>ANGULAR DISTRIBUTION</b>  | Table 4 Medium Wide Beam                |
| <b>LUMINOUS UNIFORMITY</b>   | 1:10                                    |
| <b>SUN PHANTOM</b>           | Class 5                                 |
| <b>SIGNAL COLOUR</b>         | Complies with BSEN12368:2006            |
| <b>COMBINED COLOURS</b>      | Complies with BSEN12368:2006            |
| <b>OPERATING TEMPERATURE</b> | -15°C to +70°C                          |

### SPECIFICATIONS – VEHICLE

|                                  | <b>230V MODEL</b> | <b>48V MODEL</b> | <b>42V MODEL</b> |
|----------------------------------|-------------------|------------------|------------------|
| <b>NORMAL BRIGHTNESS VOLTAGE</b> | 230VAC            | 48VAC            | 42VAC            |
| <b>DIMMED BRIGHTNESS VOLTAGE</b> | 165VAC            | 32VAC            | 28VAC            |
| <b>LINEAR DIMMING RANGE</b>      | 160~230VAC        | 28~48VAC         | 26~42VAC         |
| <b>OPERATING VOLTAGE RANGE</b>   | 120~280VAC        | 20~55 VAC        | 18~49VAC         |
| <b>POWER CONSUMPTION</b>         |                   |                  |                  |
| <b>NORMAL</b>                    | 10~12W            | 10~12W           | 10~12W           |
| <b>DIMMED</b>                    | 5~6W              | 5~6W             | 5~6W             |
| <b>POWER FACTOR</b>              | >0.97             | >0.97            | >0.97            |
| <b>SWITCHING TIME</b>            | <120ms            | <120ms           | <120ms           |