

# ALDRIDGE



## TRAFFIC SIGNAL HEAD

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The Aldridge Signal head is a high quality robust polycarbonate housing with LED lanterns specifically designed to meet all relevant European and UK standards. The simple modular design is easy to install and maintain providing a variety of signal head configurations for junction layouts. With LED lanterns available in 200 mm diameter for 230v & 48v AC power supplies they typically consume 20% less than an equivalent HI signal.

## PRODUCT FEATURES

- Modular design
- Robust UV and weather resistant polycarbonate construction
- Illumination options for Tungsten Halogen LED Array & LED Central light source
- Easy to maintain with quick lamp change
- Robust locking and hinge mechanism on aspect doors
- Multiple aspect assembly options together with backing boards
- Inter-changeable doors to accommodate 200 mm or 300 mm aspect sizes
- Box sign kit available to accommodate TSRGD regulatory signs

## OPERATIONAL FEATURES

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





# TECHNICAL FEATURES

## HIGH POWER EFFICIENCY

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

## ACCREDITED MECHANICAL RELIABILITY

ATS lantern housing and LED lanterns are CE certified and have passed rigorous environmental tests 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

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

## RETROFITTING

The ATS aspect is available in standard 200 mm diameter. Therefore lanterns can be retrofitted into various brand of lantern housing.



## TECHNICAL DATA OPTICAL

TECHNOLOGY	InGaN and AlInGaP high intensity LED
UNITED KINGDOM	TR2206
EUROPE	BSEN12368:2006 / HD638
LUMINOUS INTENSITY	Class 3:2 400-2500 cd
ANGULAR DISTRIBUTION	Table 4 Medium Wide beam
LUMINOUS UNIFORMITY	1:10
SUN PHANTOM	Class 5
SIGNAL COLOUR	Complies with BSEN12368:2006
COMBINED COLOURS	Complies with BSEN12368:2006
OPERATING TEMPERATURE	-40 °C ~ 74 °C

## TECHNICAL DATA ELECTRICAL

	230V MODEL	48V MODEL
NORMAL BRIGHTNESS VOLTAGE	230VAC	48VAC
DIMMED BRIGHTNESS VOLTAGE	165VAC	20VAC
LINEAR DIMMING RANGE	160 ~ 230VAC	28 ~ 48VAC
OPERATING VOLTAGE RANGE	120 ~ 280VAC	20 ~ 55VAC
POWER CONSUMPTION		
NORMAL	10 ~ 12W	7 ~ 12W
DIMMED	5 ~ 6W	3 ~ 5W
POWER FACTOR	>0.97	>0.97
SWITCHING TIME	<120 ms	<120 ms