



ALDRIDGE

**TRAFFIC SIGNALS
& HARDWARE**
MOVING SMART

LED & CLS TRAFFIC SIGNAL LANTERNS

**FOR EUROPEAN AND BRITISH
STANDARDS 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

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

ACCREDITED MECHANICAL RELIABILITY

- Aldridge 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

- Aldridge 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

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

SPECIFICATIONS — VEHICLE

TECHNOLOGY	InGaN and AlInGap High intensity LED
SPECIFICATIONS:	
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	-15°C ~ +70°C

SPECIFICATIONS — VEHICLE

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

PEDESTRIAN COUNTDOWN DISPLAYS

Aldridge Pedestrian Count-Down Display (PCD) utilises the latest in microprocessor and LED technologies to provide a cutting edge product.

The PCD has been manufactured in accordance with the operation of Pedestrian Traffic Signals in RTA Specification TSC/4. The PCD is powered by 240V AC (or 42V AC in 42V AC version), which is taken from the signal lantern (typically the RED standing man / Don't Walk lantern used to flash the clearance period).

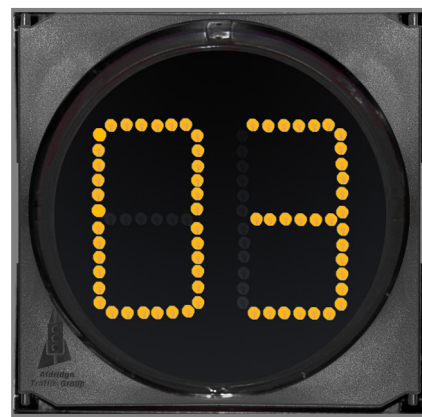
No programming is required for the PCD as it auto detects the flashing clearance period. Auto detection occurs for at least one complete cycle before displaying the correct count down sequence on the following cycle. Timing and synchronisation with the flashing clearance is taken from the flashing lantern (typically the RED Standman / Don't Walk lantern is used to flash the clearance period).



PEDESTRIAN COMBINED COUNTDOWN TIMER

FEATURES

- Utilising the latest in LED technology for low power, high brightness, and long operational life.
- Built-in intelligence to detect the pedestrian clearance period.
- Designed to operate with RTA Equipment Specification No. TSC/4 for Pedestrian Traffic Signals.
- On-site configurable leading zero digit blanking.
- No additional programming or configuration required
- Works in conjunction with Aldridge Pedestrian Signal Lanterns which are compliant with Australian and International standards
- Australian designed and Manufactured
- Available with IP65 Signal Lanterns Housings
- U.V stabilised components
- Modular components for easy maintenance
- Fits standard 200mm Traffic Signal Lantern Housings.
- Simple installation for new or existing traffic signals.



UK PEDESTRIAN COMBINED COUNTDOWN TIMER

Mounting of the PCD is standard as it is designed to mount into existing Traffic Signal Housings and can be provided with or without the step down transformer.

The PCD is typically used with standard Pedestrian Traffic Signals to provide an indication of the remaining time for the flashing clearance period. The two-digit display only lights during the flashing clearance period and displays a count down of the remaining seconds for the clearance period. The PCD is blank during the GREEN Walk period and RED Don't Walk Periods.

A configuration jumper is used to enable or disable leading zero digit blanking. Leading zero blanking provides additional visual feedback to distinguish clearance periods below 10 seconds.



DIGIT DISPLAY

- Two 7-segment digits
- Standard Leading Zero Digit Blanking or Non-leading Zero Digit Blanking option

POWER SUPPLY

- 240V AC 50Hz (or 42V AC 50Hz in 42V AC version)
- Power is taken from the Signal Lantern input.

SIGNAL LANTERN INPUT

- Connects to the Signal Lantern used to indicate the flashing clearance period for pedestrian crossings. (typically the RED standing Man or Don't Walk Lantern)
- Typically connected in parallel to the signal lantern.

SIGNAL LANTERN INPUT

- Meets all requirements of AS-2144
- High luminous output
- IP65 protection
- Coloured lens in compliance with colour requirements of CIE/AS-2144
- LED type with long term reliability and operational life





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