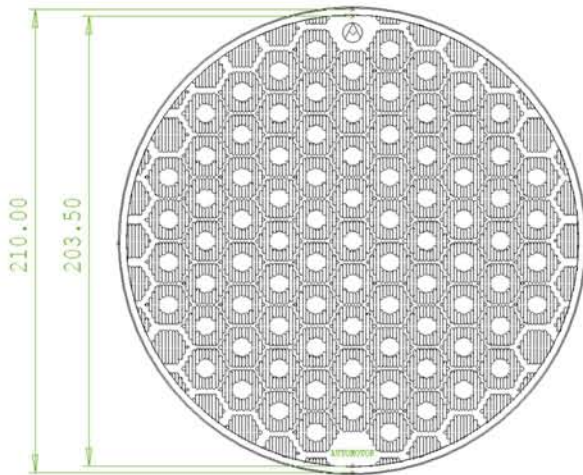




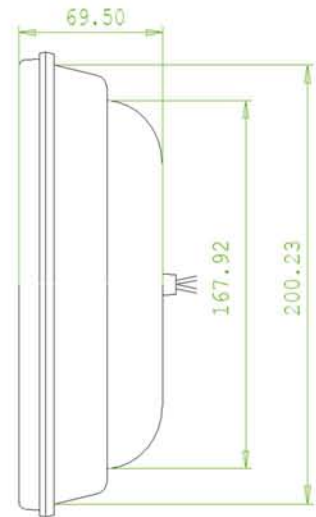
All dimensions in mm



Front View



Rear View



Side View

Specifications

Optical:

A-LED dominant wavelengths:	
• Red	630 nm
• Amber	592 nm
• Green	505 nm
Minimum luminous intensity on the beam axis	450 cd
Reflector	Honeycomb diffuser
Lense	Flat diffuser lense to fit reflector

General:

Lense diameter	203 mm
Lense material	Clear polycarbonate
Diffuser-reflector material	Clear polycarbonate
Rear housing	Nylon
Power connector	2-way, fully insulated

Power Supply:

Power Supply Type	Switch-mode, constant current
Power consumption (MAX)	
• Red	5.5 VA
• Amber	6.5 VA
• Green	5 VA
Input voltage range	230 V _{AC} ± 20 % (50 Hz)
Switch-on/off threshold voltage	180 V _{AC}
Power Factor	> 0.9

Design

AUTOMOTOR's A-LED is a high quality product designed for new installations as well as retro-fitting into existing housings. The module is a robust sealed beam protecting all internal electronic circuitry from dust, moisture and physical damage. The light consists of a power supply, cluster of high-bright LEDs, a lense, reflector and nylon housing. The honeycomb reflector is designed to improve light-output efficiency as well as provide diffusion. The lense also provides diffusion without reduction in intensity on the beam axis.

The switch-mode power supply is fused and protected against line surges. The power supply provides the LED's with a constant current under all operating conditions. This ensures that the LEDs are never overdriven. From switch-on, the power supply maintains a uniform LED brightness, regardless of the input voltage. The power supply also has built-in circuitry which only allows the led module to switch on above 180 V_{AC}. This is a very important feature preventing glowing signals caused by induced voltages on long multi-core cables between the controller and signals.

The A-LED modules have been successfully tested by the SABS for compliance with SANS 1459:2004 (for LED traffic signals).



Advantages of A-LED

- A-LED signals dramatically reduce the risk of hazardous situations caused by incandescent and halogen lamp failures
- Long life expectancy eliminates regular lamp inspection and replacement.
- The collection of dust on the outer surface of the lense is minimised by the flat design thus further facilitating maintenance.
- A-LED signals typically reduce the power consumption of an incandescent traffic signal installation seven fold.
- A-LED signals have a uniform light intensity throughout the surface of the lense. For this reason they appear bigger and clearer than conventional signals. Incandescent and halogen lamps tend to be brighter in the center and duller on the perimeter. The elimination of bright spots reduces glare at night and in most instances night dimming is not required.
- Since the lense, reflector and LEDs are not pigmented, the sun-phantom effect experienced in traditional signal lamps is completely eliminated.
- The A-LED signal is fully designed and manufactured in South Africa maximising local content and job creation.