

# **Hamsar**

*Lighting and Electronic Products*



**Bus Industry**

## LED Low Beam Projector



- **Black aluminum alloy die-cast housing & weatherproof design**
- **Three tab adjustment plus one mounting tab**
- **Low current draw of 1.2 amps at 12V and 0.6 amps at 24V**
- **12V and 24V dual voltage system**
- **Low power consumption of only 12 watts**
- **Long life - 20,000+ hours**
- **SAE / DOT compliant**
- **Sold individually**
- **Fuel savings versus halogen**

## Projector Headlamp Systems



- **Available in Halogen or HID / Xenon**
- **Chrome inner reflector design**
- **Black aluminum alloy die-cast housing & weatherproof design**
- **Three tab adjustment plus one mounting tab**
- **SAE / DOT compliant**
- **Sold individually**

## Headlamp Systems

- **Direct replacement headlamps for standard glass sealed beam headlamps**
- **Sold as a kit with two lamps and two bulbs**
- **Die-cast aluminum housing**
- **Solid glass lens with chrome bulb shield for maximum performance**
- **Applications include all vehicles using sealed beams today**
- **Lamps can be upgraded for off-road applications**
- **SAE/DOT compliant**



## LED Courtesy Utility Lights



- Compact and extremely versatile LED interior and exterior lights
- LED power is constant and long lasting - up to 100,000 hours of service life
- Very low power consumption
- Use for step lighting, under dashboard, dome light & cargo areas

## Rear Lighting



- Centre high mounted brake lights designed and engineered for years of use in the toughest environments
- LED and Incandescent Stop / Turn / Tail & Turn Signal lighting available
- SAE / DOT compliant

## Daytime Running Light Modules

- Compact, solid state DRL units that exceed all NHTSA, FMVSS, CMVSS and CSA guidelines



## Back Up Alarms

- Applications: School buses, trailers, wreckers, cars, pickups, light & heavy duty vehicles, heavy equipment & tow motors
- Fiberglass filled nylon housing
- Polarity protected
- Epoxy encapsulated solid state electronics
- Horizontal or vertical mounting
- Steam cleanable
- Operating range of -30°C to +55°C





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